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FORESTRY ABSTRACTS

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FORESTRY ABSTRACTS

Contents

Review Articles:

Water Supply and Tree Growth Part I Water Deficits, by T.T. Kozlowski ... 57
Water Supply and Tree Growth Part II Flooding, by T.T. Kozlowski ... 145
Forest Inventories in Canada, by G.M. Bonnor ... 201
Pinus oocarpa, by A. Greaves ... 503
Ecological aspects of natural and plantation forests by David Whitehead ... 615
Making Wood Speak: an introduction to dendrochronology, by Yvonne Trenard ... 729

FORESTRY THESIS SUMMARIES ... 601

ABSTRACTS

1.	General publications and general techniques	5	97	163	213	267	329	387	445	533	625	667	761
	General publications	5	97	163	213	267	329	387	445	533	625	667	761
	Techniques and methodology	7	97	163	213	270	329	388	448	533	625	669	768
	Miscellaneous	–	–	–	–	–	–	–	–	–	–	–	–
2.	General aspects of forestry	8	97	163	214	270	329	388	449	533	625	670	769
	General. Biographies	–	–	–	–	–	329	–	449	–	625	670	769
	Forestry from the national, regional, or international point of view. Forest history	8	97	163	214	270	329	388	449	534	625	670	769
	Legislation	9	99	165	215	273	332	390	450	536	626	673	778
	Taxation. Subsidies, loans, etc.	9	99	165	215	273	332	391	451	536	626	673	778
	Insurance	–	–	–	–	–	–	–	–	–	–	–	–
	Education and research. Information services	9	99	165	215	273	332	391	451	536	626	673	778
	Organizations and publicity	9	–	165	–	273	332	391	452	–	–	673	779
	Labour considerations. Safety. Work study	9	99	166	215	273	332	391	452	536	626	673	779
	Forests as a source of energy	10	99	166	215	273	332	392	452	536	626	673	781
3.	Silviculture	11	100	166	216	274	333	392	453	537	628	674	782
	General	11	100	–	–	274	333	–	–	–	–	674	782
	Choice of species. Trials of species, provenances etc.	11	100	166	216	274	333	392	453	537	628	674	783
	Seed (for propagation)	12	100	167	216	275	334	393	453	537	629	675	785
	Vegetative propagation. Tissue culture	12	101	167	217	275	335	393	455	538	629	676	787
	Use of fertilizers	13	101	168	217	276	336	394	455	539	629	676	788
	Nursery practice	13	102	169	218	277	336	395	456	541	630	677	790
	Establishment and tending of stands	14	103	170	219	278	338	396	457	542	631	677	792
	Silviculture by species and species groups	17	104	173	223	282	342	398	460	548	633	681	804
	Machinery	20	105	173	225	283	343	400	461	549	633	682	806
	Growing and collection of forest products other than wood	20	105	174	225	283	343	401	461	549	635	682	807
4.	Forest mensuration and management	21	105	174	226	283	344	401	462	550	635	683	809
	General	–	105	–	–	–	344	–	462	550	–	–	809
	Systems and units of measurement, including conversion tables. Measuring instruments and apparatus	–	105	–	–	–	344	401	462	550	–	683	809
	Measurements of trees, stands, and round timber	21	106	174	226	283	344	401	462	550	635	683	809
	Growth, increment. Biomass	–	106	175	–	285	345	402	463	551	636	685	811
	Management plans and planning	23	107	176	228	287	346	403	465	554	–	687	815
	Inventory, including sampling methods	23	108	177	228	287	347	404	465	555	636	688	816
	Surveying and mapping. Remote sensing	23	108	177	228	288	347	406	466	556	637	689	816
	Business economics of forestry	23	109	177	229	288	348	407	467	557	637	689	818
	Administration of forest enterprises	23	–	178	229	289	349	–	–	558	–	690	820
	Miscellaneous	–	–	–	–	–	–	–	468	–	–	–	–
5.	Physical environment	23	109	178	229	289	349	407	468	558	637	690	820
	General	–	109	178	229	289	349	–	–	558	637	690	820
	Climate, and atmospheric influences	23	109	178	229	289	349	407	468	558	637	690	820
	Land form. Slope. Aspect. Altitude	24	109	178	–	290	350	408	468	559	638	690	821
	Soil	24	109	178	230	290	350	408	468	559	638	690	821
	Soil water/plant relations	24	111	180	231	291	351	409	469	560	638	692	823
	Soil nutrient relations	24	112	180	231	292	351	410	469	561	639	692	824
	Pollution. Damage by man	24	113	180	232	293	352	411	469	562	639	692	826
	Effect of various growth factors (including silvicultural treatment) on wood properties	–	113	181	232	–	353	412	470	563	640	693	828
	Influence of forest on the physical environment	26	113	181	233	294	353	413	470	563	640	693	829
	Miscellaneous	–	–	181	–	–	–	–	–	–	–	–	–

6.	Fire	26	113	181	233	294	353	413	470	563	640	693	829
	General	–	113	181	233	294	353	413	470	563	640	693	829
	Predisposing factors and causes. Fire-danger rating	26	114	181	234	294	354	413	470	563	640	694	830
	Prevention and control	26	114	182	234	295	354	413	471	564	640	694	831
	Effects of fire	26	114	182	234	295	354	413	471	565	641	695	831
	Miscellaneous	–	–	–	235	–	–	413	–	–	641	–	832
7.	Plant biology	26	114	182	235	295	354	413	472	565	641	695	832
	General	26	114	182	–	–	354	–	–	–	641	–	832
	Silvicultural characters. Habit. Phenology	26	115	182	235	295	354	413	472	565	641	695	832
	Anatomy, morphology	26	115	183	235	296	355	414	473	566	642	695	832
	Chemistry	27	115	183	236	296	355	415	474	567	643	696	835
	Physiology. Biochemistry	27	115	183	236	297	356	415	474	567	643	696	836
	Reproduction	27	117	183	237	297	356	415	475	569	644	698	838
	Taxonomy, nomenclature. Herbaria	27	117	184	237	298	357	415	476	569	644	699	838
	Floras, checklists	–	117	184	238	299	357	–	476	569	644	699	839
	Plant ecology	28	118	184	238	299	358	415	477	569	645	700	839
	Miscellaneous	29	–	–	–	–	–	–	–	–	–	–	842
8.	Genetics and breeding. Variation. Evolution	29	118	185	239	304	360	418	479	571	645	703	842
	General	29	–	185	239	304	360	418	479	–	645	703	842
	Gymnosperms	32	118	185	239	304	361	419	479	571	645	703	843
	Angiosperms	32	120	185	241	305	361	420	479	572	646	704	845
	Miscellaneous	33	120	–	–	–	–	–	–	–	–	–	–
9.	Mycology and pathology	33	120	186	241	305	361	420	479	572	646	705	846
	General	33	–	186	241	305	361	420	479	–	646	705	846
	Fungal ecology	34	120	–	241	305	–	420	480	572	646	–	846
	Mycorrhiza and other (fungal, bacterial etc.) symbioses	34	120	186	241	305	361	420	480	573	646	705	846
	Fungal diseases	35	122	186	242	306	362	422	480	574	647	706	847
	Bacteria	36	–	–	246	310	366	425	–	580	650	–	–
	Virus, mycoplasmas etc.	36	–	187	246	310	366	426	483	580	650	–	851
	Protection and control	36	124	187	246	310	366	426	483	580	650	708	851
	Miscellaneous, including mistletoe	37	124	187	246	310	366	426	483	–	650	–	852
10.	Insects and other invertebrates	37	124	188	247	310	366	426	483	580	650	709	852
	General	–	–	188	247	–	366	–	–	–	–	709	852
	Invertebrate ecology	37	124	188	247	310	366	426	483	580	650	709	852
	Insects	37	124	188	247	310	367	427	483	580	651	709	852
	Mites	–	–	–	252	314	–	434	490	587	655	–	–
	Nematodes	41	132	190	–	315	371	434	–	587	655	714	856
	Other invertebrates	–	–	–	252	315	–	434	490	–	–	714	–
	Protection and control	41	133	190	252	315	372	434	490	587	655	714	856
	Miscellaneous	–	–	191	–	–	–	–	–	–	–	–	–
11.	Range	42	134	191	255	316	373	436	492	588	657	716	857
12.	Game and Wildlife	42	135	191	256	317	375	436	492	590	657	716	857
13.	Fish	42	136	193	256	317	376	437	493	591	658	717	859
14.	Protection forests. Watershed/catchment management. Soil conservation	43	136	193	256	317	376	437	493	591	658	718	859
	General	43	136	193	256	317	376	437	493	591	658	–	859
	Watershed/catchment management. Water conservation. Hydrology	43	136	193	256	318	376	437	493	591	658	718	859
	Soil conservation and erosion	43	136	193	257	319	377	437	494	592	659	719	860
	Shelterbelts. Hedges	43	137	194	258	319	378	438	494	593	659	719	861
	Revegetation and reclamation	43	137	194	258	319	378	438	494	593	659	720	861
	Miscellaneous	–	–	–	–	–	–	–	–	–	–	–	–
15.	Other land use. Nature conservation. Arboriculture	44	137	194	258	319	379	438	494	593	660	720	863
	General	–	–	194	–	–	379	–	–	593	–	–	863
	Land use and land-use policy and planning. Agroforestry	44	137	194	258	319	379	438	494	593	660	720	863
	Nature conservation	45	138	195	260	321	380	439	496	594	661	721	864
	Recreation, tourism, and rural amenity	45	138	195	261	321	381	439	496	594	661	721	865
	Arboriculture, urban amenity	46	138	196	261	322	381	440	497	594	661	722	866
	Miscellaneous	–	–	–	–	323	–	–	–	–	–	–	867
16.	Dendrochronology and dendroclimatology	46	139	196	262	323	382	440	497	595	661	722	867

AUTHOR INDEX ... 869
SPECIES INDEX ... 901
SUBJECT INDEX ... 931

READERS' GUIDE

1. **Terminology.** Terms included in the *Concise Oxford Dictionary, Chamber's Dictionary of Science and Technology* and the *Terminology of Forest Science, Technology, Practice and Products* are used without explanation. Other terms from particular sciences may also be used without explanation if it is thought that they are familiar to those readers likely to be concerned.

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(b) Language symbols. Capital initial letters indicate the language of the text, small letters the language(s) of the summary. The following abbreviations are used:

Af	= Afrikaans	Fr	= French	Nl	= Dutch
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Be	= White Russian	He	= Hebrew	Pl	= Polish
Bg	= Bulgarian	Hu	= Hungarian	Pt	= Portuguese
Ch	= Chinese	In	= Indonesian	Ro	= Rumanian
Cs	= Czech	Is	= Icelandic	Ru	= Russian
Da	= Danish	It	= Italian	Sh	= Serbo-Croatian
De	= German	Ja	= Japanese	Sk	= Slovakian
Ee	= Estonian	Ko	= Korean	Sn	= Slovenian
En	= English	Li	= Lithuanian	Sv	= Swedish
Es	= Spanish	Lv	= Latvian	Tr	= Turkish
Fi	= Finnish	Ma	= Macedonian	Uk	= Ukrainian

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CFB	Commonwealth Forestry Bureau, South Parks Road, Oxford OX1 3RD.
CGB	Commonwealth Bureau of Plant Breeding and Genetics, Department of Applied Biology, Downing Street, Cambridge CB2 3BX.
CIE	Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR.
CMI	Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF.
EMB	Commonwealth Bureau of Horticulture and Plantation Crops, East Malling Research Station, Maidstone, Kent ME19 6BJ.
HSB	Rothamsted Experimental Station, Harpenden, Herts AL5 2JQ.
IPC	Institute of Paper Chemistry, P.O. Box 1039, Appleton, Wisconsin 54911, USA.
NIAE	National Institute of Agricultural Engineering, Silsoe, Bedford, MK45 4HS.
OAEc	Agricultural Economics Research Institute, Dartington House, Little Clarendon Street, Oxford, OX1 2HS.
OBD	Dept. of Botany, South Parks Rd., Oxford, OX1 3RA.
OH	Hope Dept. of Entomology, University Museum, Parks Road, Oxford, OX1 3PW.
ORE	Department of Agriculture, Parks Road, Oxford, OX1 3PF.
ORS	Radcliffe Science Library, South Parks Road, Oxford, OX1 3QP.
OW	ARC Weed Research Organisation, Yarnton, Oxford, OX5 1PF.
OZ	Department of Zoology, Oxford, OX1 3PS.
PR	Building Research Establishment, Princes Risborough Laboratory, Aylesbury, Bucks HP17 9PX.
TRADA	Timber Research and Development Association, Hughenden Valley, High Wycombe, Bucks HP14 4ND.
X	Miscellaneous: apply to Commonwealth Forestry Bureau for details.

4. **Vernacular names.** The vernacular names listed below may be used in abstracts instead of the Latin ones. Indexing is by Latin names.

acacia	*Acacia* (see also black wattle)
alder	*Alnus*
ash	*Fraxinus* (generally *F. excelsior* unless otherwise indicated)
Austrian pine	*Pinus nigra* (also Corsican pine)
balsa	*Ochroma lagopus*
balsam fir	*Abies balsamea*
bamboo	Bambuseae
basswood	(see linden)
beech	*Fagus* (generally *F. sylvatica* unless otherwise indicated)
birch	*Betula* (*B. alba* is used for undifferentiated *B. pendula* and *B. pubescens*)
black spruce	*Picea mariana*
black walnut	*Juglans nigra*
black wattle	*Acacia mearnsii*
broadleaf	Angiospermae (tree; see also hardwood)
cashew	*Anacardium occidentale*
chir	*Pinus roxburghii*
coconut	*Cocos nucifera*
conifer	Coniferae (see also softwood)
Corsican pine	*Pinus nigra* (also Austrian pine)
deodar	*Cedrus deodara*
dipterocarp	Dipterocarpaceae
Douglas fir	*Pseudotsuga menziesii*
eastern hemlock	*Tsuga canadensis*
eastern white pine	*Pinus strobus* (also Weymouth pine)
elm	*Ulmus*
Engelmann spruce	*Picea engelmannii*
eucalypt	*Eucalyptus*
fig	*Ficus*
fir	*Abies* (see also Douglas fir)
hardwood	Angiospermae (timber; see also broadleaf)
hazel	*Corylus avellana*
hem-fir	*Tsuga* + *Abies* (lumber)
hemlock	(see eastern, western hemlock)
hickory	*Carya*
hinoki	*Chamaecyparis obtusa*
holly	*Ilex*
hoop pine	*Araucaria cunninghamii*
hornbeam	*Carpinus betulus*
jack pine	*Pinus banksiana*
juniper	*Juniperus*
kauri	*Agathis* (*A. australis* in New Zealand)
larch	*Larix* (see also tamarack)
linden	*Tilia* (also referred to elsewhere as 'lime' and 'basswood')
loblolly pine	*Pinus taeda* (see also southern pine)
lodgepole pine	*Pinus contorta*
longleaf pine	*Pinus palustris* (see also southern pine)
mango	*Mangifera indica*
maple	*Acer*
maritime pine	*Pinus pinaster*
mulberry	*Morus*
neem	*Azadirachta indica*
Norway spruce	*Picea abies*
oak	*Quercus* (*Q. robur* s.l. is used for undifferentiated *Q. robur* and *Q. petraea*)
palm	Palmae
Parana pine	*Araucaria angustifolia*
pine	*Pinus* (see also hoop pine, Parana pine)
ponderosa pine	*Pinus ponderosa*
poplar	*Populus* (see also yellow poplar)
radiata pine	*Pinus radiata* (also referred to elsewhere as 'Monterey pine')
rattan	*Calamus* and/or *Daemonorops* (mainly)
red oak	*Quercus rubra* (northern red oak of the USA)
robinia	*Robinia pseudoacacia* (also referred to elsewhere as 'false acacia', 'locust' etc.)
rubber	*Hevea brasiliensis* (unless otherwise indicated)
sal	*Shorea robusta*
sandalwood	*Santalum album*
Scots pine	*Pinus sylvestris*
shortleaf pine	*Pinus echinata* (see also southern pine)
silver fir	*Abies alba*
Sitka spruce	*Picea sitchensis*
slash pine	*Pinus elliottii* (see also southern pine)
softwood	Gymnospermae (timber; see also conifer)
southern pine	*Pinus echinata, P. elliottii, P. palustris* and *P. taeda* (indexed as *P.* 'Southern')
spruce	*Picea*
sugar maple	*Acer saccharum*
sugi	*Cryptomeria japonica*
sweetgum	*Liquidambar styraciflua*
tamarack	*Larix laricina*
teak	*Tectona grandis*
walnut	*Juglans regia* (see also black walnut)
Weymouth pine	*Pinus strobus* (also eastern white pine)
white oak	*Quercus alba*
white spruce	*Picea glauca*
western hemlock	*Tsuga heterophylla*
willow	*Salix*
yellow poplar	*Liriodendron tulipifera* (also referred to elsewhere as 'tulip tree')
yew	*Taxus baccata* (other species by Latin names)

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CAB has three main functions: a world agricultural information service, an identification service for entomology, mycology and helminthology, and a biocontrol service. CAB's information service is based on 46 abstract journals which, taken together, cover the whole of agricultural science. Contemporary world literature in many languages is scanned, and abstracts of significant items are included in the journals. Since 1973 all abstracts have been made available in machine-readable form for batch searching and online retrieval. The database contains approximately 1,250,000 records and is increasing by over 12,000 per month. Other publications include technical periodicals, annotated bibliographies, review articles and books. An information retrieval service ensures that individual needs are met, and also supplies photocopies of source papers.

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ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Page	*Abstract*	*Line*	
Volume 27			
697	6158	5,7	For '*foliosa*' read '*foliolosa*'
		13,16	For '*foliosa*' read '*foliolosa*'
Species Index			
860	Col. 3		For '*Chamaebatia foliosa*' read '*Chamaebatia foliolosa*'
Volume 35			
490	5071	6	For 'Segaluid' read 'Segaliud'
Volume 36			
423	4718	6	For '11X11-ft' read '11 X 11-tree'
Volume 37			
231	2592	last	For 'leaf scar' read 'chevron'
Volume 38			
257	2495	9	For 'Heterobasidion annosum' read '*Heterobasidion annosum*'
Volum 39			
381	3804	5	For 'Spanish' read 'Portuguese'
Volume 41			
16	196	8	After '*Picea canadensis*' insert '[*P. glauca*]'
85	1032	2	For '[***filicifolia***]' read '[***ficifolia***]'
212	2388	5	For 'strengenutzten' read 'streugenutzten'
316	3587	15	For 'latewood' read 'earlywood'
393	4257	6	For '*opacea*' read '*opaca*'
492	5807	7	For '*Erigonum*' read '*Eriogonum*'
Species Index			
712	Col. 2		For '***Erigonum***' read '***Eriogonum***'
713	Col. 1		For '***E. filicifolia***' read '***E. ficifolia***'
716	Col. 1		For '***I. opacea***' read '***I. opaca***'
720	Col. 3		Delete '***P. canadensis*** 196'
721	Col. 1		After '***Picea glauca***, seed, germination' insert '196,'
Volume 42			
26	215	10	For '*species*' read 'species'
95	859	10	For '*Buchania*' read '*Buchanania*'
270	2320	1	For '**Levels-of-growing**' read '**Levels-of-growing-stock**'
491	4400	1	For 'AL-KANANI' read 'AL-KINANY'
532	4637	3	For '(6)' read '(5)'
534	4665	5	For '*immunigata*' read '*immuginata*'
Author Index			
629	Col. 1		For 'Al-Kanani' read 'Al-Kinany'

Page	*Abstract*	*Line*	
Species Index			
656	Col. 3		For '***Buchania***' read '***Buchanania***'
668	Col. 2		For '***Pinus clausa immunigata***' read '***Pinus clausa immuginata***'
Volume 43			
13	110	12	After '*falcata*' insert '[*A. falcataria*]'
21	220	1	After 'BERLYN, G,' insert '(P)'
28	291	17	For '*Elaegnus*' read '*Elaeagnus*'
45	475	1	After 'GEWALD, N.' insert '(J)'
116	700	4	For '(1980) 1,' read '(1980) 17 (1)'
120	746	7&8	For '*fastigiata*' read '*fastigata*'
123	773	1	For 'OLIVEIRA' read 'OLIVERIA'
128	819	7	For '*zimmermani*' read '*zimmermanni*'
131	846	1	After 'OVERHULSER, D.' insert '(L)'
139	922	1	For 'MURPHY' read 'MURPHEY'
170	1018	5	After '*Platanus*' insert 'X'
173	1049	1	After 'BREDENKAMP, B.' insert '(V.)'
176	1080	1	For 'ZAVITKOWSKI' read 'ZAVITKOVSKI'
181	1132	8	For '*Taxas*' read '*Taxus*'
184	1171	5&13	Before '*vicaryi*' insert 'X'
186	1191	2	For '**jumpers**' read '**junipers**'
186	1191	6	For '*scopularum*' read '*scopulorum*'
226	1449	3	For '(1981) 2,' read '(1981) 36 (2)'
228	1475	14&19	For '*hippocastaneum*' read '*hippocastanum*'
228	1475	15	For '*platyphylla*' read '*platyphyllos*'
228	1475	15	After '*Platanus*' insert 'X'
231	1507	1	For 'JORDEN' read 'JORDAN'
231	1510	1	After 'GADGIL, R.' insert '(L.)'
232	1516	18	After '*Platanus*' insert 'X'
238	1589	1	After 'MATTOS FILHO, A.' insert 'DE'
242	1631	22	After '*Prljincevic, M.*' insert '(*B.*)'
244	1643	6	For '*thomasi*' read '*thomasii*'
256	1767	2	For '***virginiana***' read '***virginianus***'
256	1772	1	For 'GARTZ' read 'SARTZ'
276	1936	1	For 'DICKMAN' read 'DICKMANN'
277	1951	1	For 'JENKINSON, J.I.' read 'JENKINSON, J.L.'
290	2089	1	For 'DMITRYEV' read 'DMITRIEV'
310	2316	14	For '*improbaba*' read '*improbana*'
353	2746	2	For '***conferta***' read '***frainetto***'
355	2774	10	For '*auriculaeformis*' read '*auriculiformis*'
362	2876	6	For '*fastigiata*' read '*fastigata*'
364	2897	1	After 'SHIGO, A.' insert '(L.)'
374	3004	8	For '*nelsonii*' read '*nelsoni*'
391	3182	3	For 'ORGANISATION' read 'ORGANIZATION'
391	3185	3	For 'ORGANISATION' read 'ORGANIZATION'
395	3225	1	After 'DORSSER, J.' insert '(C.)'
395	3227	1	For 'AL-KINANI' read 'AL-KINANY'
396	3228	3	For 'ORGANISATION' read 'ORGANIZATION'
399	3262	22	After '*Azevedo, N.*' insert '*de*'
401	3275	13	For '*lechuguilla*' read '*lecheguilla*'
409	3359	8	After '*kaempferi*' insert '[*L. leptolepis*]'
415	3420	11	For '*mespiliformes*' read '*mespiliformis*'
427	3575	1	Before 'SOCIEDAD' insert 'COLOMBIA'
429	3587	1	For 'AL-KINANI' read 'AL-KINANY'
438	3677	1	For 'O'LONGHLIN' read 'O'LOUGHLIN'
480	4155	9	For '*argentea* [*E. angustifolia*]' read '*commutata*'
482	4179	5	After '*D.*' insert [*Scirrhia*]
492	4279	2	For '***Crocodilus***' read '***Crocodylus***'
536	4408	1	For 'ZAVITOVSKI' read 'ZAVITKOVSKI'
537	4416	8	For '*brunea*' read '*brunnea*'
550	4567	11	After '*lutea*' insert '[*B. alleghaniensis*]'
555	4640	7	For '*leucoxylum*' read '*leucoxylon*'
563	4739	1	For 'M.I.' read 'M.L.'
565	4753	1	For 'QUINTRILIO' read 'QUINTILIO'
570	4818	14	After '*dahurica*' insert '[*L. gmelinii*]'

Page	*Abstract*	*Line*	
Volume 43 *(cont'd.)*			
571	4827	10	After '*destructans*' insert '[*Nectria radicicola*]'
574	4858	1	After 'R.R.' delete '1'
578	4903	1	For 'PRZYBYT' read 'PRZYBYŁ
581	4944	13	For '*Leuscher*' read '*Leuschner*'
647	5350	1	For 'D.T.' read 'D.M.'
650	5380	6	For '*taiwanensis*' read '*taiwaniana*'
650	5382	1	After 'TINNIN, R.' insert '(O.)'
654	5416	8	After '*dahurica*' insert '[*L. gmelinii*]'
675	5595	5	For '*Zizyphus*' read '*Ziziphus*'
703	5916	1	After 'COTTERILL, P.' insert '(P.)'
708	5973	7	After '*D.*' insert '[*Scirrhia*]'
712	6011	9	For '*pseudotsugae*' read '*pseudotsugata*'
715	6042	2	For '***aspera***' read '***aspersa***'
715	6042	16	For '*Albizzia*' read '*Albizia*'
721	6100	6	After 'Price $17.50' insert 'for Nos. 13 & 14'
762	6160	15	Authors should read '*Tsu, H.H.; Tai, K.Y.; Liu, S.C.*'
762	6160	35	Authors should read '*Lieu, Y.C.; Lin, P.C.S.*'
785	6395	2	After '***ceiba*** L.' insert '[***B. malabaricum***]'
793	6478	17	For '*Nordasjö*' read '*Nordansjö*'
800	6557	11	For '*campestris*' read '*campestre*'
808	6652	7	Delete '[*Cryphonectria*]'
808	6661	5	After '*Calocedrus*' insert '[*Libocedrus*]'
809	6668		Delete whole abstract; insert 'to appear later'
818	6778	9	For '*Gingko*' read '*Ginkgo*'
820	6801	10	For 'arid' read 'acid'
820	6810	3	For '***fastigiata***' read '***fastigata***'
820	6810	11,13	For '*fastigiata*' read '*fastigata*'
		15	For '*fastigiata*' read '*fastigata*'
835	6977	1	For 'NIEMALÄ' read 'NIEMELÄ
849	7165	3	After '***Peniophora***' insert '[***Phlebia***]'
850	7177	11	Delete '[*Cryphonectria*]'
854	7227	3	After '**(Oliv.)**' insert '[***Xyloterus lineatus***]'
854	7228	2	After '***lineatum***' insert '[***Xyloterus lineatus***]'

NOTES ON INDEXES

(1) *Author Index*. All authors are listed individually without cross-references. All separate name particles, e.g. 'de', 'von', 'le', are transposed to follow the author's initials.

(2) *Species Index*. This comprises the scientific names (including those of families etc.) of woody species and vertebrates and of lower organisms, whether plant or animal. Herbaceous plants are not indexed individually. Vertebrates will be found also in the Subject Index under the English names of the groups to which they belong, e.g. Deer, Rabbits and hares, Mice, voles and rats, Squirrels, Fish.

An effort has been made to include cross-references between synonyms that occur frequently in the literature; the name selected for indexing will usually be that which is most commonly employed. In most cases, the name selected will be the taxonomically valid one, but it is impracticable for the Bureau to enquire closely into difficult problems of nomenclature for the great range of organisms indexed, and some synonyms may remain undetected.

(3) *Subject Index*. This includes subject references proper and geographical references. Many cross-references to synonyms and references to related heads have been included. A subject reference is not normally made when the information is considered relevant to one species only: in cases where the species concerned is the prime consideration the Species Index should be consulted first.

AUTHOR INDEX

See under name of country for national organizations.
Abaturov, Yu. D. 5904
Abazović, D. 5419
Abbas, H. 5208
Abbas, M. 1859
Abbas, S. H. 5207, 5208
Abdelmonem, A. H. 2364
Abdul Kareem, A. 3712
Abdul Razak, M. A. 2774
Abdulhadi, R. 4017, 4128
Abdullah, M. A. 3227
Abdullah Sani 1860
Abdullah, Y. S. 3227
Abdurakhmanov, M. I. 2352
Abe, T. 6337
Aber, J. D. 3283, 4609
Abernethy, N. C. 5519
Abernethy, W. 75
Abert, J. G. 5572
Abetz, P. 4482
Abeynayake, K. 3763
Abrahamson, L. P. 3824, 4172
Abrazhko, M. A. 2831
Abrazhko, V. I. 2814, 2845
Abreu, C. L. B. de 2178
Abrol, I. P. 2599, 5633
Abu Said, A. 2774
Abul-Hajj, Y. J. 1646
Accorsi, C. A. 783
Acevedo, M. F. 1168
Acevedo, N. D. 961
Ackerman, W.L. 4354
Ackley, K. A. 943
Adams, D. 954, 957
Adams, D. H. 2280
Adams, D. M. 954, 957, 6787
Adams, J. A. 6302
Adams, M. J. 6391
Adams, N. S. 1866
Adams, P. H. W. 2976
Adams, P. M. 276
Adams, P. W. 6715
Adams, R. 4332
Adams, T. J. H. 1639
Addison, R. B. 4365
Adejuwon, J. O. 5122
Adelsköld, G. 6642
Adhikary, S. 3712
Adisoemarto, S. 943
Adlard, P. G. 2047
Afanas'ev, V. A. 6078
Africa, Southern African Regional Commission for the Conservation and Utilisation of the Soil 5571
Agarwal, A. 6156
Agarwal, R. M. 6153
Agarwal, S. C. 3282
Agarwala, S. C. 6144
Agee, J. K. 5484, 5800
Ager, B. 6478
Agliullin, F. V. 3863
Agnihotri, Y. 6049
Agrawal, P. K. 5714
Agrawal, S. P. 1156
Agre, N. S. 3494
Ågren, G. I. 2203, 2216, 2227, 2228, 2231, 5711, 5712
Aguinagalde, I. 1007
Ahlgren, C. E. 2242
Ahlgren, I. F. 2242
Ahmad, A. 1970, 5145
Ahmed, G. U. 4930
Ahmed, I. U. 4930
Ahn, Y. J. 5415
Aho, P. E. 2924, 4156
Ahyoud, A. 2104
Aiba, Y. 4449
Aigner, F. 5764
Ainscough, G. L. 1322
Aird, P. L. 1427
Airy Shaw, H. K. 1581, 7030
Aitken, J. 1934, 2553, 6181
Akanbi, M. O. 415
Akasi, T. 7077
Akça, A. 3328
Åkerlund, I. 296
Akhtar, M. A. 4704
Akhtar, M. S. 797
Akhundov, T. M. 4871
Akibayashi, Y. 6805
Akinsanmi, F. A. 3968, 4145
Akopyan, S. G. 438
Akram, M. 5435
Aksenova, N. A. 6122
Aksoy, H. 6172
Al-Kinani, A. I. 3227, 3587
Al-Kinany, A. 5151
Al-Maaruf, I. N. 3587
Alaudinov, Sh. T. 4785
Alauzet, C. 4979
Alban, D. H. 4581, 6729
Al'benskiĭ, A. V. 4842
Albers, D. J. 6096
Albert, D. J. 1390
Albert, G. 3683
Albert, P. J. 810
Albertini, L. 166
Albin, R. H. 3780, 3784
Albini, F. A. 673, 2080, 2130, 4028, 4751
Albonetti, S. G. 5637
Albrecht, J. 5064
Albrecht, M. L. 22
Albrektson, A. 2217, 5724
Alcubilla, M. 2293, 5854
Alderwegen, H. A. van 2436
Aldhous, J. R. 1650
Aldon, E. F. 457, 1569, 3063, 5465, 5599
Aldred, A. H. 4660
Aldrich-Blake, F. P. G. 1854
Aldrich, D. F. 2137
Aldrich, R. C. 3314
Aldwinckle, H. S. 5919
Aleem, A. 2379, 5436
Aleksakhin, R. M. 4686
Aleksandrov, A. Kh. 4436, 4835, 6396
Alekseev, I. A. 6573
Alekseev, V. A. 6869
Alemdag, I. S. 1079, 6735, 6736, 6737, 6738
Alent'ev, P. N. 123, 5933
Alexander, I. J. 495, 1622, 5337
Alexander, K. 7060
Alexander, M. E. 1527, 1533, 4040, 4049, 5498, 5802
Alexander, R. G. 6305
Alexander, R. R. 1261, 3296, 3297, 3298, 3299, 5326
Alexander, S. A. 2282, 2887, 5606, 5967
Alexander, T. G. 6973
Alexandre, D. Y. 6363
Alexandris, S. 6363
Alexandrov, A. H. 2819
Alfaro, R. I. 1711, 7224
Alfoldi, T. T. 3979
Algar, W. H. 6308
Alho, C. J. R. 3014
Alig, R. J. 240, 3181
Alkamper, J. 5462, 7305
Allaby, M. 1294
Allard, R. W. 5922
Allemand, P. 156
Allen, D. C. 2320
Allen, H. L. 4458, 5520, 5521
Allen, P. J. 2726
Allen, R. 1293
Allen, S. 487
Allison, R. A. 6770
Alma, P. 1243
Alma, P. J. 421
Almberger, P. 296
Almeida, A. R. de 6133
Almendros, G. 2712
Alonso Peloche, H. 2860
Aloo, T. C. 2937
Alpers, W. 945
Alston, A. M. 5253
Altena, A. C. van 4531, 4532, 5217
Alter, H. 5572
Althen, F. W. von 135, 1029, 3865, 3878, 6505
Altherr, E. 5650, 6699
Altmann, D. 2561
Altshuler, N. 6100
Alvarez León, R. 3443
Alvarez, R. G. 977
Alvera, B. 5774
Alverson, W. S. 2788
Alves, A. A. M. 3266
Alwis, D. P. de 3763
Aly, R. 3712
Amano, M. 3979, 7361
Amateis, R. L. 5520
Ambasht, R. S. 1851, 5052
Ambrose, J. D. 456
Ambrosi, P. 2989
Amerson, H. V. 1362, 5358, 6420
Ames, C. R. 3030
Amidon, E. L. 3948, 3949
Aminoff, S. 6328, 6331
Aminuddin, M. 1357, 7014
Amiro, B. D. 5323
Amman, G. D. 2331, 3571
Ammer, U. 5753, 6195
Ammon, V. D. 1614
Ammosova, Ya. M. 5776
Amorini, E. 1966, 6365, 6488
Ampuero, E. P. 479
Amschl, B. 3161
Anagnostakis, S. L. 2912, 3524, 4910
Anand, S. K. 6974
Ananin, N. 6250
Ananthapadmanabha, H. S. 5341
Andel, S. 3070, 3078
Anders, O. A. 478
Anders, S. 2823
Andersen, F. G. 2275
Anderson, B. W. 3030
Anderson, C. A. 6850, 6851
Anderson, D. J. 4130
Anderson, G. W. 1802, 1816, 2294, 2418
Anderson, H. A. 1527
Anderson, H. E. 4058
Anderson, H. N. 1477
Anderson, J. 1204
Anderson, J. A. R. 1057
Anderson, J. E. 5015
Anderson, J. F. 812, 2954
Anderson, L. 5040
Anderson, L. M. 918, 1111
Anderson, M. H. 4912
Anderson, N. A. 364
Anderson, P. O. 6530
Anderson, R. 6055, 6056
Anderson, R. C. 885
Anderson, R. L. 1207, 4650
Anderson, W. C. 6603
Anderson, W. R. 2177
Andersson, F. 943, 2195, 2231
Andersson, L. Å. 2208
Andersson, O. 6317
Andersson, P. O. 6513, 6604
Andersson, S. O. 6595
Andrashchuk, V. V. 7248
André, P. 2001
Andreeva, I. N. 4155
Andreeva, T. F. 6997
Andréoli, C. 171
Andresen, J. W. 1600, 3104, 3775, 4349, 6112, 7380
Andrew, I. 6197
Andrews, D. S. 4168, 4170, 4435
Andrews, P. L. 266, 5266
Andrews, T. L. 2368
Angalet, G. W. 4946
Angel, R. Vélez 3576
Angely, J. 719
Angermair, T. 4727
Anholt, B. F. 5218
Anikeenko, N. P. 3823
Aniol, R. W. 4360
Anishchenko, B. I. 2321
Anisochkin, V. G. 6694
Anko, B. 2415, 2416
Ansari, A. A. 4139
Ansari, M. Y. 6750
Anselmi, N. 361, 365, 1994, 3266, 5979, 6562
Anstey, C. 6302
Antibus, R. K. 4850
Antipov, N. I. 7170
Antoine, R. 2003
Antonanzas, E. L. 3879
Antonova, G. F. 1562, 4770, 4771, 6938
Antos, J. A. 3855
Antry, G. L. 7225
Anuchin, N. P. 6694
Anwar, C. 3510, 5947
Aoki, H. 6196
Apostolov, L. G. 4939
Appanah, S. 1852, 4098, 7012
Appelroth, S. E. 5198
Appleby, J. E. 819, 866
Applejohn, M. J. 1676
Apsey, T. M. 3301
Apt, K. 5197
Aquarone, E. 3209
Aquino, E. 2686
Aquino, M. 1855
Araki, M. 5762, 7298
Arakida, K. 3669
Aramoto, M. 3230, 3231, 3232
Arap-Sang, F. K. 7157
Araujo, P. A. de Mattos 1555
Arbour, S. J. 5518
Arbuthnott, Viscount 6250
Arellano Perez, G. 479
Arex Og 4460
Argyle, D. 1441
Arias, J. R. 4940
Arif, B. M. 1239, 1734, 4262
Aristeguieta, L. 1167
Arita, Y. 805
Arkley, R. J. 648
Arman, L. A. 4092
Armson, K. A. 1322, 4658
Armstrong, J. E. 1635
Armstrong, L. 5184
Armstrong, T. 2937
Arnaud, J. C. 6286
Arno, G. I. 6111
Arno, S. F. 2237, 4049
Arnold, F. 7373
Arnold, H. F. 2446, 3699
Arnold, J. E. M. 5123
Arnold, K. D. 6079
Arnold, L. E. 1315, 3932, 4704, 5451
Arnold, S. von 339
Arnoldussen, A. H. 1887
Arnott, J. T. 1398, 3130, 3132, 6692
Arnould, M. F. 2717
Aro, E. M. 6976, 6978
Arola, R. A. 6479
Aronoff, S. 4668, 6766
Aronsson, A. 2209, 5711
Arora, G. D. 2527, 3060
Arora, S. 6427
Arp, H. 3326
Arsovski, M. 4463
Arthur, J. B., Jr. 3754
Arthur, Sir B. 6304
Artman, J. D. 1189
Artmann, A. 7282
Arts, W. 3271
Artsybashev, B. S. 5809
Arvanitis, L. G. 3312
Arvidsson, A. 6608
Arya, H. C. 2552, 6152
Arya, R. S. 6395
Arzone, A. 5390
Asada, S. 7186
Ascerno, M. E. 3623
Ascher, K. R. S. 3712
Ash, J. 227
Ashby, W. C. 7320
Ashiru, M. O. 6008
Ashley, M. D. 1866
Ashnin, N. D. 4519
Ashton, D. H. 4827, 6908
Ashton, P. S. 221, 1861, 3788, 4108, 6100
Askew, G. R. 4525, 4836
Askren, C. A. 704

Assier-Andrieu, L. 5541
Asthalter, K. 2705, 3350, 4700
Astratova, A. N. 6388
Asuyama, H. 5378, 6188
Atar Singh 7314
Athari, S. 2728
Atkinson, T. H. 1672
Atkinson, W. A. 2005, 3113, 3142, 3145, 6431
Atmosoedaryo, S. 479
Atrokhin, V. G. 5186
Attinger, W. 5248
Attiwill, P. 3724
Attiwill, P. M. 3724, 3726
Atuahene, S. K. N. 6000
Atwal, A. S. 2420
Au, P. N. 2561
Aubert, G. 4695
Aubert, P. 1915, 2464
Auchmoody, L. R. 6410, 6721
Auclair, D. 77, 6240
Audin, M. 3387
Auer, C. 2323
Auer, G. 1333
Aufsess, H. von 150, 1633, 5852
Auger, M. 2369
Auken, O. W. 725
Aulerich, D. E. 5196
Aussenac, G. 2105
Austarå, Ø. 7201
Austin, M. P. 4130
Australia, Australian Forestry Council 3714
Autor, H. 6647
Autry, L. L. 1039
Avanzo, E. 2611, 2619, 3259, 3260, 5669
Averill, R. D. 1726
Avery, C. C. 677
Avila, M. 472
Avlani, P. 5196
Avramenko, R. S. 5860
Awang, J. B. 5526
Awaya, H. 6483
Awunti, J. 6160
Axelrod, D. I. 3430
Axelsson, B. 2196, 2216, 2227
Ay, P. 5110
Ayaz, M. 5596
Ayer, H. W. 6289
Ayling, R. D. 1431
Ayral, P. 591
Ayres, P. G. 4192, 4927, 5976
Azevedo, N. De 178, 3262
Aziz, T. 6453
Baas, P. 6944, 6951, 6953
Bååth, E. 2226
Babaev, A. G. 5070
Babich, N. A. 593
Babos, K. 5798, 6892
Baccetti, I. 6103
Bachelard, E. P. 3364
Bachmann, P. 3662
Bäcke, J. 6535
Backéus, I. 6287
Backhaus, G. 3791, 6647, 6648
Bäckström, P. O. 5198, 6534
Bacon, G. J. 4515
Bacon, P. R. 1898, 3443
Bacone, J. A. 2795
Badenhop, M. B. 1008, 1841
Badola, K. C. 1491
Badola, R. K. 6150
Baena, S. 3265
Baer, N. 1426
Baer, N. W. 1426, 1619
Baes, C. F., III 1843
Baeten, H. 265
Baeten, S. 2863
Báez Valdés, R. E. 3443
Bagley, F. L. 7316
Bagley, W. T. 747, 5935
Bahadur, K. N. 4113, 7017
Bai, J. 5398
Baig, M. S. 5435
Bailey, A. W. 2128
Bailey, B. K. 802
Bailey, D. B. 6184
Bailey, R. G. 1859, 2800, 3072, 4002
Bailey, R. L. 5519
Bailey, W. G. 4677
Baillie, M. G. L. 4361
Bailly, C. 6438
Bain, J. 1229, 1243, 2625
Bain, R. 531
Baker, A. 529
Baker, B. L. 2387
Baker, F. A. 1671
Baker, J. B. 4688, 5522, 5523, 6482
Baker, M. B., Jr. 677
Baker, T. G. 3726
Bakhshish Singh 2880, 6047
Bakhvalova, V. N. 4225
Bakhvolov, S. A. 4225
Bakke, A. 426, 839, 1715, 6190
Balabanian, O. 5542
Balabko, P. N. 5776
Balagopalan, M. 6973
Balakrishnan, K. S. 1162
Balakrishnan, N. P. 4121
Balasubramanian, K. 729
Balasundaram, A. 1022
Balasundaran, M. 6186
Bałazy, S. 4991
Balda, R. P. 7265, 7268
Balduzzi, A. 3346
Baldwin, P. J. 5244
Baldwin, V. C., Jr. 1416, 5519, 5520
Bale, A. 5478
Balfour, J. 6241
Balick, L. 1097
Balick, L. K. 620
Ball, D. F. 6836
Ball, J. 1716
Ball, J. B. 6074
Ball, M. J., III 5017
Ball, W. J. 3867, 3991, 4666
Ballard, R. 1366, 4011, 4012, 4458, 5519, 5521, 5613
Ballard, T. M. 3220
Balmer, W. 180
Balmer, W. E. 180
Balneaves, J. M. 2004, 5646
Baloch, G. M. 5183
Balslev, H. 713
Baltaxe, R. 6776
Baltensweiler, W. 3556, 6189
Balthasar, J. 3268
Balyasnyĭ, V. I. 3360
Bamber, R. K. 2761, 2762, 4780
Banaag, V. S. 4803
Banerjee, L. K. 2792
Banerjee, S. P. 1491, 2140, 2707
Banfield, E. C. 3585
Bangash, S. H. 5611
Banik, R. L. 2540
Banković, S. 6170
Banks, P. F. 2514, 2515, 5571
Banner, A. 3979
Bannister, M. H. 734, 7106
Banville, C. 55
Barabin, A. I. 6399, 6406
Baradat, P. 7094
Barajas Morales, J. 277
Baranchugov, E. G. 4508
Baranetskiĭ, G. G. 5888
Baranovskis, Yu. B. 69
Barantsev, A. S. 4022
Barber, F. J. 2019
Barber, L. 1753
Barber, L. R. 3653, 7215
Barber, R. L. 6787
Barbor, J. C. 6160
Barbosa, F. G. da S. 3265
Barbosa, P. 856, 2325
Barclay-Estrup, P. 668
Bardo, M. 5661
Bardyshev, I. I. 3413
Bare, B. B. 1471, 2023, 3310
Barger, J. H. 5981, 5982
Barker, J. E. 606, 6899
Barker, P. A. 6109
Barlow, N. D. 4208
Barnard, E. L. 3830, 5786
Barnard, J. E. 1866, 3309, 3315
Barner, H. 2542
Barner, H. von 6259
Barner, J. 7343
Barnes, B. V. 5938
Barnes, G. C. 6244
Barnes, R. B. 3309, 3980
Barnes, R. D. 5331
Barnett, J. P. 375, 1960, 1961, 5515, 5604
Barnett, J. R. 1158
Barney, C. W. 1426
Barney, G. O. 3149
Barney, R. J. 1531, 1532, 2129, 2133, 2137, 4736, 5801
Baroni, A. 5812
Barreiros, H. de S. 2179
Barreto, L. S. 3261
Barrett, D. K. 3537, 5953
Barrett, J. 1498
Barrett, J. W. 2523, 4552
Barrett, R. L. 5167, 5331
Bärring, U. 6565
Barrio Chavira, J. M. 3224
Barron, J. R. 5423
Barros, N. F. 3221
Barros, O. 3303
Barrow, N. J. 3718
Barrows, J. S. 5800
Barry, J. 1753
Barry, J. M. 1175
Barry, P. J. 4984, 7260
Barse, R. G. 2742, 2743
Barstad, J. F. 1247
Bart, F. 5107
Bartelheimer, P. 6789
Bärtels, A. 6120
Bartelt, R. J. 4987, 4988
Barth, R. 2673
Barth, W. E. 4820
Bartle, G. A. 255
Bartle, J. R. 452, 1799
Bartolini, P. 5664
Bartolome, J. W. 3007
Barton, P. G. 4013
Bartos, D. L. 640
Bartram, V. C. 3195
Bartuněk, J. 2851
Barz, S. 6890
Barzdajn, W. 3208
Basavarajaiah, A. B. 2307, 2879
Basham, J. T. 1690, 5512, 5950
Bashford, R. 818, 821
Basile, J. V. 5030
Baskakova, S. Yu. 4092
Baskakova, Z. T. 6091
Baskerville, G. 4945
Baskerville, G. L. 1684
Baso, V. 2686
Basova, S. V. 785
Bassett, C. 3457, 6305
Bassman, J. 5987
Bastian, O. 7210
Bastide, R. 2009
Bathiany, R. O. 3318
Batini, F. E. 1800, 4328
Battacharyya, H. 3310
Battisti, R. de 3592
Bauch, J. 1159, 2454, 4356, 5850, 5851, 7391
Bauer, E. 6200, 6235
Bauer, F. 5085
Bauer, H. 979
Bauer, K. 1903, 4382
Bauger, E. 1348, 6363
Baughman, R. G. 2080, 2132, 4678, 5799
Baum, U. 3841
Baumeister, G. 3465
Baumer, M. 3785
Baumgartner, D. C. 6314, 7339
Baumgras, J. E. 857, 5654
Bäumler, W. 4282
Bax, H. A. 5198
Bayley, P. B. 1858, 1859
Bayley, S. E. 3444
Bazzigher, G. 782, 2301, 2911
Beadle, N. C. W. 2182
Beale, M. A. 278, 1564
Beasom, S. L. 5029
Beattie, K. G. 4315
Beattie, M. H. 3311
Beaubien, J. 3979, 4663
Beauchesne, G. 4437
Beaudoin, R. 5930
Beaver, R. A. 4255
Beazley, R. I. 6294, 6314
Bebeker, T. E. 4943
Bečanović, T. 49
Becerra, J. 4851
Bechet, G. 6195
Beck, D. E. 3270, 5520
Beck, J. A., Jr. 2376
Beck, O. A. 4558
Beck, W. 5670
Becker, A. 2759
Becker, B. 4358
Becker, G. 4404
Becker, M. 249
Becker, P. 4079
Beckett, K. A. 2181
Beckmann, G. G. 3716
Beckwith, A. F. 1427
Beckwith, R. C. 3608
Becquet, M. 48
Beda-Puta, H. 6882
Bedard, W. D. 428, 864, 1712, 2993, 4947
Bedding, R. A. 4947
Beddows, D. 6692, 7068
Bedell, T. E. 2370
Bedinger, M. S. 3444
Bednar, H. 979
Bednarz, Z. 7391
Bednyĭ, V. D. 2321
Beek, J. van der 6669
Beek, K. J. 3082
Beekman, F. 2858, 7066
Beers, T. W. 3312
Beers, W. L., Jr. 5523
Beeson, C. D. 2239
Beeson, R. T. 5686
Beets, P. 2046
Beets, P. N. 607
Beever, J. 2854
Befort, W. 6198, 6774
Befort, W. A. 1477, 3981, 6774
Beg, A. R. 5319
Bega, R. V. 5366
Begley, C. D. 6240
Behm, A. 6318
Behrens, V. 6426
Beilhartz, D. W. 1092
Beisel, G. 3240
Beitzen-Heineke, I. 4538
Bejer, B. 5386, 7201, 7261
Béky, A. 5728
Belanger, R. P. 5411, 5523
Belaya, A. Yu. 3391
Belcher, D. M. 3311
Belczak, L. T. 6133
Béldi, F. 3781
Belgrand, M. 4014
Belin, M. 4070
Belkina, N. E. 6990
Bell, E. F. 2403, 5094
Bell, G. S. 6309
Bell, J. 1463, 3314
Bell, J. F. 3890
Bell, J. G. 740
Bell, R. A. 3596, 3597
Bell, T. I. W. 1917, 1926, 1957, 1958, 1975, 1989, 2593, 2768
Bella, I. E. 3875, 3938, 4601
Bellefleur, P. 2233
Bellmann, C. 6871
Belmonte, M., Jr. 3879
Beloborodov, V. M. 5329, 5864
Belousov, V. I. 3273
Belozerov, A. V. 5035
Beltz, R. C. 4637
Belyaev, A. B. 3811
Belyaeva, Yu. E. 5885
Belyĭ, G. D. 6573
Ben Salem, B. 5556
Benacchio, S. 1153
Benassi, A. 2587, 5737, 5739
Benčat, F. 7112, 7383
Beneteau, A. 7066
Benforado, J. 3444
Bengart, H. W. 1132
Bengtson, C. 2207

Bengtson, G. W. 3257
Bengtsson, G. 6166
Benjamin, D. M. 434, 1214, 1724, 4981, 6020
Bennema, J. 3077
Bennett, C. F. 1861
Bennett, D. D. 4250
Bennett, D. M. 5820
Bennett, F. A. 4607
Bennett, J. E. 3306
Benson, C. A. 1400
Benson, D. M. 2286
Benson, J. A. 4662
Benson, J. L. 1415
Benson, L. 5315
Benson, L. D. 5315
Benson, M. L. 623, 1163
Benson, R. E. 2026, 3306, 4347
Bente, P. F., Jr. 528
Bentley, J. I. 3361
Bentley, J. R. 1407
Bentley, W. R. 3305
Bentz, F. 2703
Berbee, J. G. 6020
Berben, J. C. 2612
Berchtold, R. 2293, 5854
Berck, P. 864, 1479
Berg, A. B. 3890
Berg, B. 1503, 2221, 2222, 2223, 2224
Berg, C. C. 4799
Berg, S. 3075, 5181, 6476, 6525, 6526, 6533, 6534, 6535
Bergen, J. D. 4681
Berger, E. P. 2693, 2694
Berger, R. 6366
Berger, S. D. 6088
Berger, T. J. 2567, 2578, 2579, 2580
Berglund, E. R. 2104
Bergman, B. 256
Bergman, F. 296, 6363
Bergmann, F. 4841, 7090
Bergmann, H. 3034
Bergmann, J. H. 1037, 6232, 6551, 6552, 6553
Bergstrand, K. G. 6754
Bergstrom, D. 585
Beriashvili, I. G. 1183
Berisford, C. W. 827, 1714, 2940, 2941, 3595, 3622, 3647, 3648, 6015, 7215
Berkoben, P. I. 4142
Berlepsch, B. 2759
Berlyn, G. P. 220, 5932, 6957
Bernadzki, E. 6586
Bernard Dagan, C. 7094
Bernetti, G. 493, 5726, 6680, 6757
Bernhard, A. 1995
Bernhard, R. 1612
Bernier, B. 999, 1000, 1001, 1374
Bernier, D. L. 5470
Berntsen, C. 2414
Berre, A. le 768
Berrio Moreno, J. 3577
Berry, A. B. 1455, 5639, 6494, 6693
Berry, C. R. 1621, 6539, 7324
Berry, F. H. 7158
Berry, G. A. S. 913
Berry, J. K. 3303, 3798
Berry, P. M. 6247
Berryman, A. A. 3556, 3570, 4243, 4245, 6189, 6190, 7233
Berta, F. 7010
Berta, G. 4853
Berthelay, S. 4880
Berti, R. N. 86, 160
Bertier, P. 5540
Bertrand, G. 5539
Berwig, W. 1420
Beschta, R. L. 1274
Beswick, R. 3113
Beszterda, A. 4081
Betancourt, Y. 6656
Betancurt, J. J. U. 3758
Betke, D. 3772
Bettenay, E. 1813
Betters, D. R. 2049, 2087, 3303, 3552, 4263, 5558
Bettin, H. 3157
Bettolo, G. B. M. 1160, 1161
Betts, R. E. 842
Bettwy, A. L. 1866
Beuschel, G. 3263
Bevege, D. I. 37, 38, 3733, 3740, 6191
Beveridge, A. E. 2583, 2584
Bevins, C. D. 2133, 4031, 4760
Bewley, R. J. F. 748
Bey, C. F. 3530, 5937, 7183
Beyerhelm, C. D. 4746
Bhadoria, B. K. 3010
Bhandari, P. 3418
Bhaskar, V. 5304
Bhat, J. V. 5831
Bhat, K. M. 6948, 6972, 7028
Bhat, R. P. 1637
Bhatia, K. S. 2594
Bhatnagar, H. P. 6394
Bhatt, R. G. 5324
Bhojwani, S. S. 995
Biache, G. 1738
Białkiewicz, F. 3670, 3880
Bianchi, M. 2678
Bibikov, V. P. 592
Bickerstaff, A. 6295
Bicknell, S. H. 3236
Biddiscombe, E. F. 1814
Bieberstein, D. 6232
Biedroń, J. 3375
Bierl-Leonhardt, B. A. 4209
Bigalke, R. C. 6058, 6367
Bigg, W. L. 495
Biggin, P. 1983
Biggs, A. R. 3374, 4020
Biggs, R. H. 3818
Bignell, A. W. 2440
Bigot, C. 92, 96, 99
Billings, R. F. 2968, 2969
Binazzi, A. 172
Bingham, G. E. 6885
Binkley, C. S. 247
Binns, W. O. 5062, 5063
Bir, S. S. 2313
Birch, M. C. 845, 4235, 4947, 4998
Bird, T. 619
Birk, E. M. 642, 4006
Birot, Y. 157, 350, 544
Birrell, J. R. 2475
Birse, E. L. 4133
Birth, E. E. 3311
Biryukova, A. M. 6817
Bischof, W. 2198
Bishop, J. P. 469, 909
Bisht, P. S. 6150
Bisiach, M. 7177
Bissell, G. 2116
Biström, O. 833
Bitterlich, W. 1453
Bittig, B. 3301, 6475
Bitvinskas, T. T. 7391
Bityukov, N. A. 4384
Bixby, J. A. 2873
Bjerkelund, T. C. 6474
Bjorkbom, J. C. 6409, 6410
Björkman, O. 4793
Bjornn, T. C. 6063
Bjørnstad, Å. 5280
Black, E. M. 1542
Black, H. D. 3491
Black, H., Jr. 1598
Black, M. E. 3701
Black, R. D. 1492
Blackie, J. R. 6074
Blackmore, D. G. 1041
Blaine, J. 3700
Blais, J. R. 1692, 2337, 2369, 4965, 7390
Blake, T. J. 280, 1814, 5295
Blanchard, R. O. 1652, 2281, 4147
Blanchette, R. A. 384, 1633, 6029
Blaner, A. C. 2176
Blank, R. W. 4586, 6915
Blaschke, H. 2781, 5849
Blasco, F. 5895
Blatchford, O. N. 6199
Blauel, R. A. 4710
Blazich, F. A. 23, 6424
Bledsoe, C. S. 759, 4087
Bleich, V. C. 1598
Bleys, J. A. 2518
Blinn, C. R. 5521, 5522
Bliss, J. C. 5231
Block, J. 1631
Blomström, H. 6332
Bloomberg, W. J. 3500, 4162
Bl"skova, G. 3399
Blum, B. M. 6605
Blum, F. D. 1646
Blum, M. S. 6015
Blum, W. E. H. 3180, 3369
BlyMonnen, C. A. 24
Boag, B. 859, 1982
Boardman, R. 37, 3737
Bobkova, K. S. 3956
Bobrov, A. I. 6889
Bobrovnikova, T. I. 3912
Boccone, A. 5979
Bochert, H. 3920
Bock, E. 5850
Bockheim, J. G. 2029, 2238
Böckmann, C. 1631
Bodala, K. C. 2707
Boehlmann, D. 3411
Boelter, D. H. 1178
Boerwinkel, H. W. J. 2435
Boeryd, A. 5236
Bofinger, P. 84
Bogaert, M. van der 5469
Bogdanova, D. A. 6023
Bogenschütz, H. 437, 3558
Boggess, W. R. 1315
Bogoev, V. M. 6870
Bogs, D. 4952
Böhlmann, D. 3411
Böhm, P. 6614
Böhr, H. J. 6364
Boĭko, M. I. 4887
Boissière, J. 5541
Boissonneau, A. N. 1095
Bokel, M. 3712
Bol, M. 3078, 6473
Bola, I. 765, 4884
Boland, D. J. 2973, 3192, 3454, 3462, 6374
Boldt, C. E. 878
Bolghari, H. A. 109
Bolotov, N. A. 5588
Bol'shakova, V. I. 6983
Bol'shova, N. I. 3504
Bolsinger, C. L. 3166, 5096
Bond, C. 6053
Bond, C. J. 2469
Bond, G. E. 1817
Bond, W. 678
Bond, W. K. 4315
Bondarenko, S. M. 2776
Bondev, I. A. 6870
Bonenfant, F. 2458
Bonfante-Fasolo, P. 5334
Bonga, J. M. 6420
Bongarrà, G. S. 787
Bongart, A. 1333
Bongarten, B. C. 1182, 4837
Bonham, C. D. 2608
Boni, A. L. 3389
Bonin, G. 1891
Bonita, M. L. 3958
Bonneau, M. 113
Bonnel, G. 5661
Bonnemann, I. 1633
Bonner, F. T. 193, 3447
Bonner, G. M. 3317
Bonner, W. 4624
Bonnicksen, T. M. 2232, 5231, 6196, 6910, 7360
Bonnor, G. M. 2691, 4645, 4662, 6763
Bonse, R. 1106
Bontempo, E. 6267
Bonvoisin, S. 6278
Boodley, J. W. 30
Boojh, R. 2544
Books, D. J. 5800
Boonkird, S. 479
Boos, D. D. 3310
Booth, D. T. 3062
Booth, H. E. 1344
Boralkar, D. B. 1857
Borchert, A. 2561
Borchert, R. 4765
Borchgrevink, I. 6727
Borchi, S. 6313
Bordelon, M. A. 4420
Borden, D. I. 1979
Borden, J. H. 1711, 1728, 7224
Borden, T. B. 1531
Bordères, M. 2465
Borer, F. 5248
Borger, R. De 265
Borges, E. E. de L. e 553
Borgman, J. 4352
Bormann, B. T. 643
Bormann, F. H. 220
Born, M. 6232, 6552
Borough, C. J. 41, 1799, 1814, 1815
Børset, O. 1349, 6359
Bosatta, E. 2229, 2230
Bosch, J. M. 1273
Bosch, R. 4382, 4556
Boshlyakov, A. N. 6093
Bosman, D. L. 6201, 6202
Bossuyt, R. van 932
Botero, L. 3073
Botev, N. 4523, 4766
Botkin, D. B. 1585, 3424, 3425
Boto, G. 609
Boto, K. G. 609
Botosso, P. C. 4776
Bouchon, J. 1316
Boudoux, M. 2458, 3618
Boufford, J. G. 130, 131, 132, 5171, 5176, 5177
Boulay, M. 106, 6420
Boulbria, A. 6185
Boullard, B. 2466, 6160
Boulos, L. 5489
Boulvert, Y. 2236
Bouquet, A. 3415
Bourgeois, J. C. 1257
Bourgeois, M. 4919
Bourgin, J. P. 101
Bourke, M. J. 4323
Bousfield, W. E. 1699, 1701, 2114, 4374
Boutin, Y. 5661
Bouvarel, P. 72
Boven, B. van 2694, 6784
Bowen, E. E. 1593
Bowen, G. D. 3720, 3740, 5246
Bowen, H. D. 5197
Bowen, K. L. 5352
Bower, D. R. 3319, 4630, 4631
Bower, R. C. 1046
Bowers, W. 6053
Bowes, M. D. 2417
Bowles, A. 1155
Bowles, G. P. 2004
Bowman, D. M. J. S. 2589, 6928
Bowman, J. C. 6228
Bowyer, P. C. 4426
Boyce, S. G. 613, 2414, 3302, 5224, 5741, 6290, 6291
Boyd, C. C. 3130
Boyd, D. M. 2086
Boyd, J. D. 1135, 6959
Boyer, P. 6160
Boyer, W. D. 151, 1072, 4058, 5520
Boyle, K. 6250
Bozhinov, Kh. 6743
Bozon, M. 5542
Braasch, D. 4952
Braathe, P. 1298, 5173, 6364
Brabänder, H. D. 3690
Brace, L. G. 1427
Braches, P. 2601
Bradatsch, H. 4660
Bradshaw, A. D. 904
Bradshaw, H. D. 5251
Bradshaw, L. S. 1538, 1539, 2133
Bradstock, R. 4587
Brady, R. P. 4755
Brady, U. E. 3647, 3648
Brady, W. W. 724

Brække, F. H. 4296, 4297, 4298, 5042, 5043
Bragg, A. L. 4516
Brainerd, K. 21
Bråkenhielm, S. 2196, 2202
Bräker, O. U. 6130, 7389
Bramhall, P. A. 1842
Bramlett, D. L. 732, 5605
Brand, G. J. 3311
Brandi, R. M. 2994
Brandl, H. 2040
Brandt, A. 3712
Brandt, C. C. 5526
Brandt, P. 4001
Branson, F. A. 5014
Brantley, D. 1439
Brasier, C. M. 3507
Brassell, H. M. 3740
Bratsch, T. 15
Bratton, S. P. 7371
Braun, H. J. 6929
Brauner, A. 6199
Bravard, J. P. 5539
Bravo, D. R. 3817
Bray, M. A. 3803
Brazil, Instituto Brasileiro de Desenvolvimento Florestal 960
Breadon, R. E. 6474
Brechtel, H. M. 3037, 7297
Bredenkamp, B. V. 580, 1049, 1428, 5222
Breeze, E. M. 3480
Breisch, A. R. 3436
Breitenbach, F. von 7016
Bren, L. J. 894
Brendemuehl, R. H. 5587, 6520
Brennan, E. 263
Brennan, J. A. 4658
Brenneman, D. L. 191
Bret, F. 5539
Breteler, H. 6353
Brett, D. W. 6129
Brewbaker, J. L. 6181
Brewer, C. 5518
Brewer, J. W. 792, 3624
Breyne, A. 4360
Bricault, F. A. 4107
Bricker, C. 4659, 4660, 4664
Bridgen, M. R. 1606
Bridges, R. G. 387
Bridgewater, S. 6944
Bridgwater, F. E. 5605
Briggs, D. G. 2005
Briggs, J. D. 1822
Bright, D. E. 2962
Bright, L. 2370
Brill, H. 5850
Bringi, S. K. 4716
Bringmark, L. 2220, 2230
Brink, A. J. 512, 513
Brink, G. E. 3315
Brinkmann, G. 7214
Brinson, M. M. 5251
Brisbin, R. L. 6671
Briscoe, C. 6297
Brisse, H. 1173
Brissette, J. C. 4397
Brister, G. H. 4596
Britton, C. M. 1545, 4527
Britton, J. C. 7172
Brix, H. 1948, 3839, 5861
Broad, K. F. 3680
Broadfoot, W. M. 4688
Brockelman, W. Y. 1854
Broderick, S. H. 4674
Brodie, J. D. 2056, 3995, 4619
Brodovich, R. I. 4486
Broecker, W. 226
Broembsen, S. von 5167
Broerman, F. S. 5195, 5197
Brooker, I. 1346
Brookfield, H. C. 943
Brookman-Amissah, J. 3759
Brooks, B. C. 2365
Broshchilov, K. 3850
Brosselin, A. 5541
Brossmann, L. 4470, 6235
Brotherson, J. D. 2659
Brower, D. L. 4209
Brown, A. H. F. 1877, 6492
Brown, A. T. 4371
Brown, B. N. 6191
Brown, C. J. 3120
Brown, C. L. 1058, 1864, 5249, 6420
Brown, D. 2937
Brown, D. E. 1247, 2240, 3030
Brown, D. H. 1667
Brown, G. 6475
Brown, H. G. 6717
Brown, H. P. 6277
Brown, I. 6242
Brown, I. R. 3475, 6244, 6250
Brown, J. 1600
Brown, J. H. 2053, 2635
Brown, J. K. 4032, 5267, 5745
Brown, J. L. 727
Brown, P. J. 2433, 6195
Brown, R. B. 4134
Brown, R. W. 752, 2399
Brown, S. 943, 1107
Browne, F. G. 430, 1719, 6021
Browne, L. E. 830, 4962
Brownlee, M. J. 447
Brozka, R. J. 5451
Brubaker, L. B. 3426, 5079, 6011
Bruce, D. 3136, 3942
Bruce, D. B. 3318
Bruchwald, A. 1454
Bruck, R. I. 2889
Brückner, H. P. 5531
Bruder, M. D. 6196
Bruggenkamp, J. W. C. 2438
Brun, A. 5539
Brunberg, B. 6642
Brune, A. 90, 7117
Bruner, A. D. 2138
Bruner, M. C. 7037
Bruneton, J. 5299
Brünig, E. F. 1851, 4363
Bruskova, R. K. 4092
Bruyn, P. de 5517
Bryan, W. C. 1620
Bryant, E. S. 1866
Bryant, F. C. 3003
Bryant, M. 5040
Bryant, M. D. 1785, 6071
Bryantseva, Z. E. 6889
Bryne, G. F. 243
Bublinec, E. 2839
Buccianti, M. 6493, 6654
Buch, M. W. von 6823, 6881
Buchberger, J. 6330
Bucher, J. B. 2741
Buchholz, J. 4024, 4602
Buchholz, K. 1623, 2241
Buchleitner, E. 1010, 1375, 2725
Buchman, R. G. 1866
Bucht, S. 5663
Buck, L. 5483
Bücking, W. 7387
Buckley, G. P. 7379
Buckley, J. 7341
Buckner, E. 5517, 5520, 5523, 5526
Budantsev, P. B. 5784
Budowski, G. 459, 480
Budy, J. D. 1473, 2035, 2037, 2496, 3320, 3933
Bueren, E. M. L. van 3078
Buffa, M. 207
Buffam, P. E. 5011
Buijtenen, J. P. van 322, 738, 876
Buis, J. 1887
Bukshtynov, A. D. 5941
Bulakh, S. R. 6442
Bull, P. C. 6302, 7270
Bulychev, L. O. 3881
Bulygin, Yu. E. 3852
Bunce, R. G. H. 1884
Bunch, T. R. 2370
Bungey, R. S. 39
Bunker, S. G. 6100
Bunn, E. H. 6300, 6307
Bunnell, F. L. 4026
Bunt, J. S. 609
Bunting, A. H. 1187
Bunting, W. R. 1017, 4478
Buongiorno, J. 2061, 6756
Burdaeva, T. S. 3581
Burde, J. 6196
Burdekin, D. A. 167, 6240
Burdon, J. J. 4826
Burford, J. B. 3032
Burg, J. van den 1519, 6827
Burgan, R. E. 1536, 2135, 4756
Burger, D. 3180, 5493, 6133
Burgerjon, A. 1738
Burgess, R. L. 7037
Burk, T. 2142
Burk, T. E. 2677
Burke, C. 3030
Burke, J. 4961
Burkhardt, J. W. 3001
Burkhart, H. E. 214, 498, 847, 1977, 3311, 5520
Burkot, T. R. 6020
Burley, J. 224, 3196, 5127, 6194, 6958, 6960, 7092
Burmester, A. 6890
Burnett, F. E. 1486
Burnett, M. S. 6886
Burnham, C. P. 7330
Burns, C. W. 6302
Burns, J. P. 3326
Burns, P. Y. 3314, 5526
Burns, R. M. 594
Burns, T. W. 3833
Burr, K. E. 1931
Burrows, P. M. 4836
Burry, W. L. 4366
Burschel, P. 1048, 1525, 6616
Burtiss, J., Jr. 923
Burton, C. 3821
Burton, J. D. 5198, 5519, 6580
Burton, R. 2427
Bury, R. L. 1828
Burzyński, G. 1382
Burzyński, J. 3615
Busby, F. E. J. 6083
Busby, R. J. N. 6243
Busch, W. L. 3314
Bušs, M. 5195
Butcher, T. B. 582, 7299
Buth, J. L. 422
Butin, H. 1633, 2877, 3531, 4182, 4916, 5797
Butler, B. E. 4008
Butler, D. A. 3892, 5649
Butler, E. E. 2283
Butler, H. 4319
Butora, V. 3186, 6478
Butterfield, B. G. 6955
Buttery, R. F. 1866
Buttoud, G. 5540, 6200
Buyl, E. de 1118
Buzov, B. 4502
Byaly, A. M. 651
Bychenkova, È. A. 5297
Byers, J. A. 4978
Byington, E. K. 5020
Byler, J. W. 1609
Byrne, G. F. 3324
Byron, N. 3741
Byron, R. N. 6788
Bystrak, D. 7037
Caballero-Deloya, M. 3313
Caballero, M. 4624
Cabanettes, A. 77
Cabral, M. T. E. C. 3265
Cadahia, D. 3262
Caethoven, V. 6364
Cahalan, C. 1881
Cahalan, C. M. 5925
Cahill, M. J. 4366
Cai, Q. J. 2936
Cai, Y. C. 6376
Cain, D. 5099
Cain, J. R. 5029
Cain, M. D. 1721
Calabri, G. 3392, 6911, 6920
Calamassi, R. 5818
Calavan, E. C. 5378
Caldas, L. S. 3209
Calder, I. R. 5458, 6077
Calderon, S. S. 2519
Callaham, R. Z. 6179, 6201, 6202
Calliari, P. 5817
Calvert, R. F. 1180
Calvin, M. 6660
Calvo de Anta, R. M. 6824
Cambre, T. V. 192
Cameron, A. L. 6877
Cameron, D. 3213
Cameron, D. A. 1035, 1427, 2495, 3909, 5198, 6504
Cameron, D. M. 41, 3168, 3222, 3741
Cameron, E. A. 809
Cameron, J. N. 3213
Cameron, M. J. 445
Camiré, C. 999, 1000, 1001, 1374
Campana, R. 1204
Campana, R. J. 3478, 7146
Campbell, A. G. 4136
Campbell, A. J. 5985, 6907
Campbell, C. D. 5520
Campbell, G. A. 6781
Campbell, G. E. 1829
Campbell, H. 3320
Campbell, J. 3691
Campbell, J. B. 621
Campbell, R. A. 318
Campbell, R. B. 996, 4795
Campbell, R. B., Jr. 4565
Campbell, R. E. 677, 4056
Campbell, R. G. 5196
Campbell, R. K. 3472, 4838
Campbell, R. W. 3601, 3614, 4967
Campbell, T. E. 1391, 5516
Campos, J. C. C. 1457
Canada, Alberta Agriculture 1615
Canada, Canadian Tree Improvement Association 322
Canada, Committee on Ecological Land Classification 7062
Canada, Council of Resource and Environment Ministers 4395
Canada, Environmental Conservation Service Task Force 7340
Canada, Federal Forestry Sector Strategy Committee 6341
Canada, Forestry Service 6140
Canada, Groupe Dryade 3743
Canada, International Development Research Centre 1282
Canada, Land Use Unit, Fisheries & Marine Service, Pacific Region 5045
Canada, Lands Directorate 4313
Canada, Northern Forest Research Centre 3709
Canada, Pacific Forest Research Centre 1373
Canada, Parks Canada 4396
Canalos, C. G. 3595
Canham, A. E. 1378
Canivet, J. P. 5001
Cannell, M. G. R. 1881, 5766, 6242, 6711
Cannon, W. N., Jr. 1839, 5981, 5982
Cantiani, M. 5817, 5889, 6048
Cao, Q. V. 214
Cao, S. D. 7328
Capecki, Z. 1131
Capretti, P. 1645
Caraher, D. L. 2370
Caratini, C. 5895
Carbon, B. A. 255
Cardé, R. T. 804, 6039
Cardozo, Y. 2451
Carew, G. C. 3585
Carey, M. L. 656, 657, 3248
Carl, C. M., Jr. 6463
Carle, P. 3556
Carleton, T. J. 4807
Carlisle, A. 322
Carlson, C. E. 1647, 2114, 2115, 2117, 5258
Carlson, K. D. 2895
Carlson, K. G. 3317
Carlson, L. W. 1180, 4468
Carlson, W. C. 3840
Carlsson, J. 64

Carlton, D. W. 4740
Carmean, W. H. 1462, 2663, 6728
Carmichael, R. S. 724
Carmony, N. B. 3030
Carne, P. B. 39
Caro, J. H. 4209
Carolin, V. M. 5388
Carolin, V. M., Jr. 808, 4974
Carothers, S. W. 3030
Carpender, E. J. 4253
Carpenter, R. A. 1862
Carpenter, S. B. 3681, 3761, 4307, 6096
Carrasco Z., F. 4233
Carrier, L. 298
Carroll, G. 1617
Carroll, G. C. 1586
Carroll, J. E. 6160
Carroll, M. N. 516
Carroll, M. R. 2429, 3245, 4677
Carroll, S. 1527
Carron, L. T. 962, 6310
Carrow, J. R. 1688, 5493
Carruthers, G. E. 1832
Carter, C. I. 6244
Carter, D. B. 4308
Carter, J. J. 37
Carter, M. R. 636
Carter, N. 1730
Carter, N. E. 4366
Carter, R. E. 7064
Cartica, R. J. 4676
Caruso, C. 6121
Carvalho, A. G. 3014
Carvalho Filho, A. P. 1916
Carvell, K. L. 2620
Casagrande, L. I. T. 3485
Casale, A. 801, 1722
Case, A. B. 2733
Casey, J. 2512, 5571
Casner, W. B. 3658
Cassens, D. L. 689
Castaneda, F. 2666
Castaños M., L. J. 6479
Castellani, C. 5552, 5700, 5701, 5721, 5738
Castellani, E. 7144
Castellanos, V. 2416
Castetter, R. 3357
Castillo, R. A. del 3781
Castonguay, A. 6797, 6798
Castri, F. di 943, 1861
Castro Verduzco, O. 4640
Catesson, A. M. 2150
Catling, P. C. 6907
Caubone, M. 43
Cavalcaselle, B. 6033, 6367
Cavé, A. 3415, 5300
Cawse, J. C. L. 5167
Cawston, J. B. 4035
Cayford, J. 6202
Cayford, J. H. 5493
Caylor, J. 5752
Ceballos, P. 1742
Cecconi, C. A. 5623, 6979
Cecich, R. A. 2172
Cedeno Sanchez, O. 2415
Cederholm, I. 1225
Cellarius-Lambermont, E. 2407
Cellerino, G. P. 361, 1994, 3266, 5749, 7144, 7194
Cellier, K. M. 1973
Cerda, L. 4201
Cerezke, H. F. 1674, 1675, 5144
Černý, A. 2835, 4883
Červinková, H. 1633
Cesar, J. 3439
Chadwick, C. E. 4938
Chadwick, M. J. 81
Chaffey, D. R. 5316, 5317
Chaffin, R. L. 2419
Chalk, P. M. 3739
Chalmers, J. A. 1826
Chalmers, W. S. 1898
Chalupa, V. 6813
Chałupka, W. 5309, 6462
Chamberlain, E. 200
Chambers, J. L. 4142
Chambers, M. J. 1860
Chambers, R. E. 1856
Chambers, T. C. 4319
Chamboredon, J. C. 5542
Champagnat, P. 97
Chamshama, S. A. O. 148
Chan, H. T. 1852, 2168, 2169, 4098, 6848, 7012
Chancellor, W. J. 5196
Chand, S. 2140
Chandler, B. R. 4142
Chandler, T. 478, 479, 480, 481, 482, 483
Chandra, J. P. 1928
Chandrasekharan, C. 2418
Chandrashekar, M. 360, 1663, 2914, 3539, 5373, 5966
Chaney, W. R. 4715
Chang, B. 7331
Chang, C. B. 6085
Chang, C. E. 5880
Chang, F. J. 6085
Chang, I. H. 947
Chang, L. P. 6733
Chang, S. J. 2415, 3992, 6756
Chang, T. Y. 6664
Chang, Y. C. 5379, 5393
Chang, Y. J. 5379
Chaphekar, S. B. 1857
Chapman, E. C. 461, 2404
Chapman, J. A. 7227, 7228
Chapman, J. F. 5800
Chapman, M. 1860
Chapman, R. C. 6761
Chapman, V. J. 3443
Chapman, V. R. 3825
Chappelka, A. H., III 6025
Chappelle, D. E. 5740
Charaklis, W. G. 453
Charles, P. J. 2323
Charles, W. N. 1883
Charley, J. 3715
Charley, J. L. 3715, 3740, 4690
Charlier, C. 3038
Charreau, C. 1286
Charter, J. R. 1459
Chartier, P. 70, 5131
Chase, C. H. 4751
Chassany, J. P. 5129
Chasseraud, J. 492
Chatelain, M. P. 4205
Chatterjee, N. 940
Chaturvedi, A. N. 1069
Chaturvedi, B. N. 4334
Chaturvedi, M. 5293
Chaudhry, M. A. 1280, 2418
Chaudhry, M. I. 5433, 6042
Chaufaux, J. 1738
Chauhan, L. 1156
Chauhan, P. S. 541, 3831, 5162
Chauhan, S. K. 5781
Chaussat, R. 92, 94
Chaussin, E. 5544
Chautrand, M. 6160
Chauvin, H. 5576
Chavan, P. D. 3536
Chavan, S. A. 4279
Chavasse, C. G. R. 2004, 6476
Chavelas P., J. 463, 2415
Chayanulu, M. V. 1162
Che Aziz, A. 2013
Cheah, E. K. 2412
Chebanov, V. I. 5933
Cheema, M. A. 5209
Chehock, C. R. 4627
Cheliak, W. M. 4661
Chellman, C. W. 423
Chen, C. C. 738
Chen, M. H. 6186
Chen, S. L. 2936
Chen, S. Z. 7027
Chen, X. J. 998
Cheney, N. P. 6906, 6909
Cheng, H. S. 2107
Cheng, W. E. 6732
Cheng, Z. Y. 1203
Cherepanov, A. I. 4230
Cherepanova, N. E. 4230
Cherkashin, V. P. 4101
Cherkasov, N. I. 6005
Cherne, B. A. 2076
Chernenko, Yu. I. 400
Chernev, T. 2986
Cherno, N. K. 5830, 6990
Chernobaĭ, Yu. N. 5910
Chernov, N. N. 4561
Chernyaeva, G. N. 2776
Chernyavskiĭ, V. S. 4600
Chernysheva, N. K. 7181
Chernyshov, V. V. 6476
Chester, R. W. 3740
Chet, I. 1634
Chew, T. K. 1914, 5697
Chi, S. C. 7301
Chi, S. H. 3261
Chiang, C. H. 2249
Chiang, H. C. 6732
Chiang, H. F. 547
Chiang, Y. C. 6084
Chiba, S. 2188, 6182
Chibber, R. K. 6822, 6828
Chibisov, G. A. 4541
Chikaarashi, H. 7298
Child, G. S. 1901, 3781
Child, P. 1246
Child, R. D. 5020
Childs, B. H. 6305
Chilton, K. G. 7379
Chilvers, G. A. 4855, 5948
China, Academy of Forestry, Institute of Forestry 1976
China, Dahshinganliing 6670
China, Department of Horticulture-Forestry, Henan College of Agriculture 6670
China, Harlbin Optical Instrument Factory 6670
China, Heilongjiang Institute of Forestry 6578
China, Institute of Zoology, Academia Sinica 868
China, Jiangsu Institute of Forestry Research 7249
China, Local Products and Sundries Corporation, Feixian County, Shandong Province 2011
China, Mixed Forest Study Group, Fujian 6612
China, Research Group of Pine Blister Rust, Heilongjiang Province 7176
China, Tianmu Branch School, Zhejiang University of Agriculture 6633
Ching, K. K. 1921, 5934
Ching, T. M. 5934
Chinnamani, S. 5665
Chipoulet, J. M. 2125, 2126
Chippendale, G. M. 1823
Chira, E. 7010
Chisholm, M. D. 802
Chiti, I. 6963
Chittenden, J. 3290
Chiusoli, A. 153
Chivers, D. J. 1854
Chizhov, B. E. 3883, 4534
Cho, Y. S. 5421
Choi, K. 6451
Choi, S. Y. 5414, 5415
Chong, V. C. 1860
Chou, C. K. S. 2289, 2624
Choudhuri, J. C. B. 2357
Choukr-Allah, R. 4
Chowdhuri, A. K. 4150
Chowdhury, A. H. 4378
Chowdhury, J. K. 2485
Christensen, B. 2144, 2145
Christensen, N. L. 3427
Christensen, P. 6908
Christensen, P. E. S. 5034
Christiansen, E. 770
Christiansen, P. 3219
Christie, J. M. 2055
Christl, C. 1399, 6468
Christophe, C. 350
Christophersen, K. A. 910, 911, 941, 1466, 5098
Chrosciewicz, Z. 1527, 4521, 5173
Chroust, L. 6589
Chrzanowski, A. 1033
Chu, C. D. 3263, 3265
Chu-Chou, M. 378, 2875, 2876, 5339, 5944, 5945
Chua, T. E. 2120
Chumak, N. F. 2874
Chumin, V. T. 2588
Chung, J. S. 6665
Chung, M. S. 7084
Chung, Y. L. 2249
Chung, Z. 2299, 5362
Chupeau, Y. 101
Chupka, È. I. 5297
Chuprov, N. P. 5221
Churcher, J. 2946
Chwaliński, K. 5363
Ciabatti, G. 6215
Ciancio, O. 78, 1939, 1965, 3263
Cibrián Tovar, D. 841
Ciesla, W. M. 6770
Cihlar, J. 4659, 4663
Cintrón, G. 3443
Cittadino, M. L. 2947
Čížková, R. 2778
Claassen, S. L. 6074
Claeson, A. 6375
Claesson, R. 835
Claflin, S. H. 2320
Clancy, K. M. 1214
Clarholm, M. 2226
Claridge, M. F. 3555
Clark, A. 5522
Clark, A., III 3317, 4569, 4570, 6684
Clark, E. W. 5434, 7200
Clark, F. B. 509
Clark, F. E. 1502
Clark, H. L. 1109
Clark, J. R. 3444
Clark, K. E. 1109
Clark, M. B. 1762, 1763
Clark, R. 6905
Clark, R. V. 38
Clark, S. G. 3950
Clark, W. C. 4945
Clarke, A. L. 1111
Clarke, B. B. 263
Clarke, J. W. 1335
Clarke, L. J. 2334, 3585
Clary, W. P. 605, 1761, 3654, 5023
Clason, T. R. 5519
Clausen, K. E. 3263, 5937
Clausen, R. W. 6032
Clauser, F. 6222, 6223, 6759, 7007
Clavejo, D. T. 2303
Claver Torrente, I. 3779
Clawson, M. 2695
Clayton, B. D. 1543
Cleary, B. D. 1559, 2561
Clebsch, E. E. C. 2109
Clements, R. 4483
Clements, R. W. 6659
Clendenen, G. W. 2025
Clerc, F. 48, 5545
Clerke, W. H. 4984
Cleve, K. van 3373, 3427, 4763, 5173
Cleveland, H. 524
Clifford, D. R. 775, 776
Clignez, M. 714
Cline-Cole, R. 5105
Cline, M. L. 7140
Clinnick, P. F. 5272
Clouston, B. 1835
Clutter, J. L. 4606
Coates, P. 1026
Coats, R. N. 7293
Cochran, P. H. 3934, 3935, 3957, 4454, 4457, 4574, 6362
Cockburn, P. F. 720
Cockerham, C. C. 496
Coetzee, G. A. 5101
Coffen, D. O. 4420
Coggeshall, M. V. 1614
Coker, G. T., III 3493
Coker, P. D. 1308
Colbert, J. J. 4228
Cole, D. M. 2027
Cole, D. N. 485, 7370
Cole, D. W. 1504, 2005, 3738
Cole, Q. W. 4495

Cole, W. E. 2331, 4986
Coleman, D. J. 4365
Coles, J. F. 984, 2530, 4419
Collamarini, D. 6087
Collier, W. 1860
Colling, G. 1793
Collins, B. M. 3710
Collins, N. M. 1851, 3355
Collins, W. H. 7386
Collis, D. G. 1709
Colombia, Sociedad Colombiana de Entomología 3575
Colvin, R. J. 5522
Combe, J. 459, 460, 474, 1279, 7344
Combes, J. A. 3306
Côme, D. 5148
Comerford, N. B. 1083
Commarmot, B. 442
Commonwealth Forestry Conference 938
Comstock, M. 3528
Conard, S. G. 4086, 6567
Concannon, D. M. 6056, 6057
Conde, L. F. 5526, 5696, 6520
Condra, R. R. 490
Cong, X. H. 7328
Connaughton, K. P. 2058, 2403, 3990, 4669
Connell, M. J. 3740
Conner, W. H. 3444
Connor, M. D. 1672
Conrad, C. E. 4048
Conrad, H. 6947
Conrad, P. W. 5021
Conradie, W. E. 580
Conry, P. J. 1853
Constantinidou, H. A. 6360
Contant, R. B. 481
Contreras Salas, M. 3780, 3781
Cook, A. 245
Cook, A. G. 647, 1856
Cook, J. H. 1111
Cooke, L. R. 775, 776
Cookson, L. 798
Coombs, J. 3189
Coons, C. F. 1427
Coons, L. B. 3491
Cooper, A. W. 3428
Cooper, D. T. 1614
Cooper, J. I. 361, 365, 1187, 1665, 1885, 2926
Cooper, J. M. 2039
Cooper, S. V. 2036, 2654
Cooper, St. G. C. 1898
Copes, D. L. 105, 545
Coppel, H. C. 4989, 6025, 6035, 7241
Coppolino, J. B. 4718
Corbin, J. B. 2917
Corbineau, F. 5148
Corcoran, D. 1866
Corcoran, T. J. 5196, 6477
Cordell, C. E. 2561, 5195, 7141
Cordell, H. K. 5072
Corey, J. C. 3389
Corkin, M. T. 6306
Cornell, H. V. 4258
Cornic, J. F. 2351
Cornides, G. 6477
Cornish, P. M. 1775, 2737
Corns, W. G. 1041
Cornu, A. 103
Cornu, D. 544
Corona, E. 3110, 5490, 6123, 6124, 6125
Corpuz, E. B. 1855
Corrado, G. 2751, 6485
Correll, D. S. 715
Corriveau, A. G. 319, 352, 1181, 1600, 1913
Cortner, H. J. 3301
Cory, H. T. 5991
Cost, N. D. 613, 1064, 3309, 4650, 4651, 5214, 6685
Costa Rica, Centro Agronomico Tropical de Investigacion y Enseñanza 458
Costello, T. R. 3309, 4639
Coster, J. E. 432, 3568, 4240, 4947
Costinis, A. C. 1838
Cosyn, P. 50
Côté, W. A. 1154
Cotroneo, A. 5417
Cottam, G. 3427, 3431
Cottell, P. L. 6477
Cotter, H. V. T. 1652
Cotterill, P. P. 3414, 5916
Cougard, M. 48
Coughtrey, P. J. 5261
Coulson, R. 6189
Coulson, R. N. 832, 2959, 3569, 4229, 4236, 4244, 4252, 5406
Countryman, C. M. 2136
Countryman, D. W. 1829
Couper, D. C. 6074
Courduroux, J. C. 94
Courtin, G. M. 5323
Courtney, F. M. 5454
Courtois, H. 1192, 1193, 1368, 1630, 5348, 6896, 7161
Cousins, W. J. 6305
Coutinho, P. N. 3443
Couto, H. T. Z. do 3316
Coutts, M. P. 1962
Couturier, R. 54
Covassi, F. 5844
Covassi, M. 172
Cover, J. D. 2959, 4229, 4236, 5406
Cowan, R. S. 289
Cowles, D. P. 3130
Cowling, E. B. 5793
Cown, D. J. 3837, 6894
Cox, G. S. 1315, 2264, 2265, 2873
Cox, J. E. 4689
Cox, J. R. 2556
Cox, R. J. 1985
Cox, T. R. 6200
Coyne, P. I. 6885
Coyte, C. A. 6305
Craft, E. P. 5654
Craig, F. G. 6906
Craig, G. A. 60
Craig, I. E. 2689
Craig, N. J. 3444
Craigdallie, D. 6408, 7058, 7059
Cram, W. H. 991, 1013
Cramer, J. P. 4253
Cramer, R. 3712
Crandall, D. A. 4701
Crane, W. J. B. 2108, 3212, 3739, 3740, 3741
Crapper, P. F. 243
Craver, J. L. 13
Crawford, D. B. 6228, 7334
Crawford, D. L. 384
Crawford, G. B. 1281
Crawford, H. S. 4055
Creighton, J. L. 973
Crichton, D. 6250
Crins, W. J. 791
Crisp, C. E. 5011
Critchley, B. R. 647
Critchley, U. 647
Crockett, J. M. 3444
Crocomo, O. J. 3209
Cromack, K., Jr. 1117, 1587, 2924, 3428, 5327
Crombrugghe, S. A. de 3012
Cromell, W. 312
Cromer, R. N. 573, 3213, 3739
Crookston, N. L. 4273
Cross, B. T. 3251
Crossley, D. A., Jr. 3606, 4244
Crouch, G. L. 3011, 3017, 3866, 4078, 4288, 4500
Crow, T. R. 4586
Crowe, F. 5361
Crowe, P. 6250
Crown, M. 1945
Crowson, R. A. 3632
Crowther, R. E. 6242
Croxdale, J. G. 4850
Crozier, L. R. 5682
Crummey, H. R. 1707
Cruz, C. S. 3265
Csapody, I. 7050
Cuca S., L. E. 1160
Culhane, P. J. 1819
Cullen, J. 1026
Cullum, G. 4495
Cumberbirch, P. M. 3500
Cumming, D. G. 3687
Cummins, J. N. 5919
Cummins, K. W. 1587
Cummins, R. P. 3660
Cunia, T. 1866, 2024, 3317, 3752, 6166
Cunningham, J. B. 7268
Cunningham, J. C. 1238, 1239, 1240, 1737, 2356, 4262, 4997
Cunningham, M. 1358
Cunningham, R. C. 6044
Cupedo, F. 4197
Cupi, F. 6716
Currado, I. 1722
Curran, P. 1098, 3986
Curran, P. J. 3986
Currie, P. O. 566
Currier, J. B. 6925
Curry, E. B. 486
Curry, S. J. 39, 2972
Curtis, F. W. 1413
Curtis, R. 5196
Curtis, R. O. 2652, 3936, 4571
Curto, A. 7348
Cushman, J. H. 1864
Cushwa, C. T. 2800
Cutler, E. J. B. 6302
Cutler, M. R. 1531
Cutler, T. R. 6306
Czapla, J. 3835, 3836
Czapowskyj, M. M. 661, 1278, 3317
Czechoslovakia, Arborétum Mlyňany 6134
Czoppelt, C. 3712
Czuhai, E. 4055
Daalen, J. C. van 2559, 5898, 5899
Dabral, B. C. 2102
Dabrowska-Zielinska, K. 3324
Dada, G. O. B. 6202
Dadwal, V. S. 3498
Dafei, A. 3800
Dafei, A. R. A. El 3800
Dafis, S. 6357, 6358
Dafni, A. 5601
Dagenbach, H. 3238, 5192
Dahlén, L. 3931
Dahlgreen, A. K. 2561
Dahlin, B. 147, 5201
Dahms, K. G. 4379
Dai, Q. H. 1447
Dai, S. F. 7354
Dajoz, R. 5881
D'Albore, G. R. 589, 590
Dale, J. A. 4599
Dale, J. W. 6191
Dale, M. B. 1851
Dale, M. E. 4548, 6584, 6596
Dalling, M. J. 6852, 6853
Damas, C. de 4416
Damlamian, J. 943
Damman, A. W. H. 1096
Damoiseau, R. 1713
Dana, M. 1774
Dancette, C. 1290
Dane, B. G. 3024, 3025
Daniel, J. C. 1853
Daniel, M. 5832
Daniel, M. J. 2380
Daniel, P. 6106
Daniel, T. C. 488
Daniels, O. L. 5800
Daniels, R. A. 5937
Daniels, R. F. 498, 7234
Danielson, R.M. 4852
Danielsson, B. O. 6474
Danilewicz, K. 360
Danilova, G. P. 6093
Danin, A. 5905, 5906
Danly, M. S. 7368
Dan'shin, I. I. 3852, 4438
Dan'shina, M. I. 3852
Dantzig, G. B. 4945
Darby, S. F. 7316
Dare, B. J. 1868
Dargavel, J. 3339
Dariĭchuk, Z. S. 3639
Daroga Singh 5553
Darr, D. 957
Darr, D. R. 953, 957
Darrow, K. 936
Darrow, R. A. 5315
Darus, H. A. 6418
Daryadi, L. 3781, 4337
Daryono, H. 3499
Das, B. L. 6202
Das, M. G. 788
Das, R. R. 7049
Das, S. 4568
Das, S. N. 1236
Dasher, D. H. 1825
Dashtoyan, A. A. 6651
Dasmann, R. F. 1862
Dassanayake, M. D. 4801
Dässler, H. G. 1128
Date, K. G. 5367
Daterman, G. E. 3573, 3610, 5991
Dathe, W. 2160
Datzman, P. A. 896, 4302
Daubenmerkl, H. 6574
Daud Khamis 1860
D'Aulerio, A. Z. 4936
Dautzenberg, N. 48
Davar, Z. 4554
Dave, V. S. 6152
Dave, Y. S. 4773, 6429
Daves, G. D., Jr. 5991
Davey, C. B. 2262, 4428
David, A. 6413, 6414, 6420
David, H. 6413, 6414
Davidenko, M. V. 6454
Davidov, G. M. 6694
Davidov, M. V. 3960, 4583
Davidson, R. L. 4329
Davidson, W. H. 5194, 7319
Davidyuk, K. S. 6543
Davies, E. J. M. 5546
Davies, S. K. 3740
Davis, A. W. 612
Davis, D. D. 3374, 4020, 4718
Davis, G. A. 3030
Davis, J. B. 1526
Davis, J. N. 2659
Davis, K. M. 1543
Davis, L. S. 965, 3781
Davis, M. B. 3426
Davis, M. L. 7102
Davis, M. R. 2715
Davis, R. C. 1266
Davis, R. E. 5378
Davis, S. H., Jr. 397
Davlenbaev, K. K. 4120
Davydov, Yu. S. 6635
Dawson, A. F. 6003
Dawson, D. 645
Dawson, D. H. 1080, 4408
Dawson, J. O. 703, 3486, 4557
Day, J. W. 5449
Day, J. W., Jr. 5450
Day, M. F. 36, 4324, 6308
Day, R. J. 5493, 5497
Deal, R. L. 5659
Dealy, J. E. 992, 2370, 6057
Dean, S. 3001
Dean, W. A. 2136
DeAngelis, D. L. 7037
Deans, H. H. 6306
Deans, J. D. 1464, 1878
Dearden, B. L. 5526
Deason, W. O. 3030
DeBano, L. F. 4048, 4056
DeBarr, G. L. 2940, 2941, 3653, 7215
Debazac, E. F. 6160
DeBell, D. S. 371, 643, 2005, 3142, 3263, 4525, 5160, 5257
DeBoo, R. F. 1427, 1754, 2369, 5430
Debray, M. M. 5299
Debroy, R. 1061
Debruin, A. W. 5800
Debry, J.M. 4462
DeByle, N. V. 297, 640, 1508, 1537, 5031
Dechamps, R. 2192
Decourt, N. 6195
Deeming, J. E. 1534, 2131

Deghi, G. S. 931
Degtyarenko, A. S. 3413
Dehadrai, P. V. 1859
DeHayes, D. H. 308, 2318
Deka, H. K. 379
Dekatov, N. N. 4597
Dekev, T. 4707
Delabraze, P. 159, 5815, 6555, 6556, 6558, 6561
Delaney, B. B. 4366
Delashmutt, J. L. 3032
Delatour, C. 382, 1630
Delavigne, R. 6160
Delcarte, E. 921, 1134, 3217, 6160
Delden, H. J. van 1887
Delendick, T. J. 4798
Delfel, N. E. 546
Dell, B. 2884
Dell, J. D. 3306
Dell, T. R. 3319, 3574
Della-Bianca, L. 3270
Delorme, A. 4356
Delp, K. 5653
Delvaux, J. 564, 733, 3243
DeMaggio, S. R. 5981
Demard, J. C. 5543
DeMars, C. J. 244, 3559
DeMars, D. J. 2928, 3936
Dembitzer, B. 1909
Demeritt, M. E., Jr. 310
Demin, K. K. 3273
Dempster, W. R. 4663
Dem'yanov, V. A. 2189
Dendwick, F. M. 5081
Denev, D. 3399
Denevan, W. M. 6100
Dengler, A. 6368
DenHeyer, J. 537
Denisenko, P. I. 5223
Denison, N. P. 5167, 5168
Denison, W. 5327
Denisov, V. P. 5768
Denninger, W. 3272, 4503, 4522, 5185, 5674, 6643, 6645
Dennington, V. N. 81
Dent, D. 2455
Denton, R. E. 2332, 2333
Derby, J. A. 1598
Derevyanko, N. M. 406
Dergachev, V. A. 7391
Deriglazov, N. I. 5180
D'Errico, P. 5873
Deryabin, D. I. 5172
Deryabina, N. V. 6706
Deryagin, V. T. 5632
Deryuga, E. S. 4505
Deryugin, A. A. 5050
Desai, S. A. 1637
Désalliers, G. 7245
Désaulniers, G. 5704, 5930
Desaulniers, R. 1755, 4945
Deschamps, N. 2958
Deschene, W. A. 5233
Desconclois, J. F. 5300
Deshayes, A. 103
Deshpande, K. B. 5376
Despain, D. G. 5800
Destremau, D. X. 88, 236, 601
Dethier, V. G. 1686
Dethioux, M. 568, 6415
Deuell, R. L. 4657
Deusen, J. L. van 3193, 5010, 5142
Deusen, P. van 4631
Deutsch, P. C. 1498
Dev, I. 1056
Devaiah, M. C. 2956
Deval, J. L. 6100
Devitt, W. J. B. 1352
Devonald, V. G. 7379
DeWeese, L. R. 4283
Dewers, R. S. 490, 922, 3704
Dexter, A. H. 698
Dhar, B. L. 1490
Dhillon, G. S. 2420
Dhir, N. K. 311
Diakonoff, A. 805
Diamandis, S. 4176
Dianis, S. D. 5201
Diarra, S. 2490
Diaz, F. 1909
Diaz-Fierros Viqueira, F. 6824
Dichenkov, N. A. 5808
Dick, J. M. 6181
Dick, M. R. 3141
Dick-Peddie, W. A. 3030
Dicke, St. G. 747
Dickens, J. C. 6015
Dickenson, S. 3525
Dickerman, M. B. 509
Dickinson, C. H. 645, 3481
Dickison, W. C. 2770
Dickman, C. R. 7283
Dickmann, D. 1936, 5987
Dickson, R. E. 2158
Didukh, Ya. P. 2235
Diebold, W. 3186
Dieterich, J. H. 881, 3396, 3397, 4058
Dietrich, A. B. 2657
Dietrich, D. L. 2686
Dietrichson, J. 327
Dietz, D. R. 6046
Dietz, P. 4536
Dietze, W. 3467
Diggle, P. J. 599
Dilcher, D. L. 2769
Dillman, R. D. 6773
Dillon, J. 3248
Dillon, M. J. 383
Dils, R. E. 5093
Dimapilis, L. L. 3958
Dimitri, L. 1517, 1629, 1631, 4538, 6629, 7164
Dimitrov, D. I. 4555
Dimitrov, E. P. 2846
Dimitrovský, K. 5468
Dimmock, G. M. 655
Dimond, J. B. 1732
Dingethal, F. J. 6095
Dinka, M. 5796
Dirdjosoemarto, S. 5477
Dissescu, G. 3317
Dissmeyer, G. E. 3309
Ditlevsen, B. 3459
Ditthavong, V. 5518
Dittmar, O. 2668, 6744
Divoux, A. 1996
Diwani, S. 4185
Dix, M. E. 807, 2328, 2329, 2929, 4960, 5010
Dix, N. J. 3480
Dixon, R. K. 2264, 2265, 2873
Djokosudardjo, S. 5947
Djupsund, B. M. 7082
Djuwadi 5480
Dmitrenko, V. L. 7310
Dmitriev, E. A. 2089, 4025
Dmitriev, P. P. 2990
Dmitrieva, E. V. 2064
Doane, C. C. 5996
Dobos, P. 1734
Dobrenz, A. K. 28
Dobriyal, N. D. 739
Dobson, D. 6476
Dochinger, L. S. 664, 4716, 6869, 6876, 6884
Dodel, J. B. 5814
Dodge, A. G., Jr. 1866
Doehlert, D. C. 4084
Doggett, C. 1736, 2969
Doggett, C. A. 7241
Dogra, G. S. 1218
Dogra, P. D. 3755
Dohrenbusch, A. 6524
Dohrenwend, R. E. 1787, 4698
Döhrer, K. 1412, 3235
Doi, Y. 5378, 6188
Doidge, D. F. 7230
Dojack, J. C. 6515
Dolgilevich, M. I. 651
Dolgin, M. M. 4204
Dolgodvorova, S. Ya. 2776
Dolph, K. L. 3926, 3948, 3949
Domingo, I. L. 3846, 3877, 4071, 4099, 4441
Dominik, J. 2932
Domir, S. C. 1042, 3108
Donahue, R. L. 449
Donald, D. G. M. 494, 1060, 5147, 5167
Donaubauer, E. 6164, 6192, 6193
Donelan, M. 284
Donley, D. E. 2964
Dönmez, R. E. 6476
Donnelly, J. G. 2733
Donnelly, J. R. 6463
Donoghue, L. R. 1139
Donov, V. 2708
Donozo Z., C. 3264
Donselman, H. M. 9
Dooley, J. H. 5195, 5201
Dooling, O. J. 1667, 1668
Doolittle, R. E. 5992
Doolittle, W. T. 2413, 6362
Doom, D. 2347, 4254, 7209
Doppelreiter, H. 6000
Doran, J. C. 3454, 3455
Dörffel, P. 6571
Dorge, C. L. 4124
Dorigan, C. J. 3753
Dormling, I. 338, 344, 742
Dorn, D. E. 6410
Dorsser, J. C. van 1014, 2583, 3225
Dorworth, C. E. 4894
Dorworth, E. B. 4157
Dosso, H. 943
Dotsenko, A. P. 4551
Doty, R. D. 3674, 5046
Doub, R. L. 84
Doucet, R. 2590, 5631
Dougherty, P. M. 633
Douglas, J. J. 1817
Douglas, L. A. 3739
Douguedroit, A. 5539
Doumenge, J. P. 5114
Dourojeanni, M. 2415
Dover, C. 3345
Dowd, M. L. 981
Dowden, H. G. M. 3742
Dowdle, B. 958, 967
Downes, R. G. 4322
Downes, S. 934
Downing, P. 2428
Downs, A. L. 4657
Doyen, A. 2416, 2423, 6364
Doyle, G. J. 3706
Doyle, T. W. 3425
Drabløs, D. 5792
Draganov, I. 116
Dragozov, I. 3399
Drakenberg, K. 45
Dransfield, J. 3433, 7019
Draskovich, K. 7278
Dreger, K. 253
Drescher, A. 7031
Drescher, J. 1104
Drescher, W. 6666
Dress, P. 6197
Dress, P. E. 3302
Drew, A. P. 6993
Drew, L. G. 6130
Drew, S. R. 6304
Drewer, M. zu 6804
Driessche, R. van den 3118
Drilias, M. J. 5344
Driscoll, R. S. 2370, 3327, 4624
Driver, B. L. 6195, 6475
Driver, C. H. 2005, 3125
Drogosz, S. 3412
Drooz, A. T. 4946, 7241
Dropkin, V. H. 2978, 6185
Drouin, J. A. 2366, 2995
Drozhalov, M. M. 1328
Drummond, D. B. 2312
Drysdale, R. J. 4754
Du, D. Z. 3492
Du, M. S. 3543
Duarte, A. P. 1166, 1924
Dubé, D. E. 1527, 4757
Dubiansky, V. M. 1414
Dubkin, M. S. 5830, 6990
Dubois, J. 464
Dubois, N. R. 1241
Dubovenko, Zh. V. 5827, 6983
Dubrasich, M. E. 1020, 3910
Ducci, F. 5149
Duchaufour, P. 4014
Duda, V. V. 6791
Dudina, L. N. 1562
Dudley, S. 1039
Dudnik, G. Ya. 6110
Dueser, R. D. 3656
Dufrane, F. 2612
Dugarov, V. I. 670
Duggin, J. A. 41
Dull, C. W. 3984
Dumas, M. 1631
Dumetier, J. P. 5814
Dunberg, A. 283
Duncan, C. 4529, 6456
Duncan, D. P. 509, 970
Duncan, E. M. 5261
Duncan, J. B. 1832
Duncan, M. J. 6302
Duncan, R. W. 7229, 7235
Dunez, J. 364
Dunford, C. 1295
Dunikowski, S. 3344
Dunlap, J. R. 1558, 5604
Dunlap, M. J. 2957
Dunn, P. H. 4056
Dunsworth, B. G. 1046
Dunwiddie, P. W. 1312
Durand-Cresswell, R. 6420
Durand, J. F. 7372
Durgin, P. B. 5259, 5273
Durling, D. S. 2334
Durmishidze, S. V. 5834
Durzan, D. 4141
Durzan, D. J. 317, 318, 6420
Dushkov, V. Yu. 2165, 6809
Dusseldorp, D. B. W. M. van 2407
Dustin, D. L. 487
Dutkiewicz, W. 989
Dutrow, G. F. 1470, 3305, 6787
Dutt, B. S. M. 4769
Dutton, D. W. 2561
Duvall, R. L. 601
Duvick, D. 4713
Duzan, H. W., Jr. 4458, 5519, 5520, 5521
Dvoracek, M. J. 1825
Dwivedi, R. S. 4924
Dwyer, J. F. 7339
Dyachenko, T. V. 6791
Dyaltuvas, R. P. 3997
Dyck, W. J. 4013
Dye, A. J. 6074
Dyer, E. D. A. 2996
Dyke, C. G. van 2262
Dykstra, D. P. 6475
Dylis, N. V. 2852
Dymovich, V. A. 7181
Dyrenkov, S. A. 2829, 2832, 5909, 6706
Dyrness, C. T. 4047, 4763, 4821, 6051
Dyrness, T. 5173
Dzedzyulya, A. A. 6791
Dzhalilov, K. G. 4413
Dziadzio, M. F. 5522
Dzięciołowski, R. 6362, 6367
Eakle, T. W. 4747
Easterbee, N. 886
Eastman, D. 1527
Eav, B. B. 2687
Ebarb, P. A. 5813, 6921
Ebert, W. 6079, 6252
Eccher, A. 78
Echelberger, H. E. 2671
Eckert, R. T. 2254
Eckhart, G. 5532
Eckstein, D. 227, 2454, 4356, 4359, 4360, 7391
Economic Commission for Europe 2585, 2610, 3182, 3185, 3228
Edelson, J. V. 3599
Eden, M. J. 1856
Eder, W. 5715
Edgecombe, A. H. 1527
Edlund, L. 296
Edminster, C. B. 239, 566, 1071, 2341, 2719, 2721, 3286, 3296, 3297, 3298, 3299, 5686
Edmiston, R. J. 1799
Edmonds, R. L. 759, 2030, 3738, 3740, 4848
Edson, D. 3317
Edwards, D. G. W. 2561, 3121, 4425, 5144
Edwards, D. W. 37, 3496

Edwards, K. A. 6074
Edwards, M. B. 600
Edwards, M. C. 4192, 4927, 5976
Edwards, M. L. 361, 365, 1665, 1885
Edwards, P. B. 420
Edwards, P. N. 2055, 6238, 6590
Edwards, R. 436
Edwards, R. J. 3030
Edwards, S. L. 5525
Efimov, Yu. P. 5329
Egawa, H. 6879
Egboh, E. O. 3789
Egeland, D. 6537
Egenti, L. C. 6181
Egger, A. 427, 877
Egger, J. 3161
Egging, L. T. 1531, 2129
Egli, S. 753
Egorenkov, M. A. 4764
Egorov, V. N. 5731
Egorova, S. V. 6843
Eguchi, K. 2371
Egunjobi, J. K. 3944
Ehlen, R. R. 5199
Ehnström, B. 7201
Ehrenberg, C. 3263
Ehrenshaft, M. 364
Eichhorn, O. 2975, 5857
Eichler, D. 3882
Eichlin, T. D. 409
Eid, J. 2074
Eidmann, H. H. 4945, 6189
Eidt, D. C. 875, 1760, 6041
Eifler, I. 6232
Eigel, R. A. 3761
Eigenmann, G. 258
Eilert, A. G. 3741
Einspahr, D. W. 301, 1521
Eis, S. 1963, 6408, 7058, 7059
Eisenhauer, G. 3780
Ek, A. R. 2034, 2677, 3304, 5722, 6748, 7037
Ekberg, I. 330
Ekblad, R. 1753
Ekk, I. 6009
Eklund, R. 1043
Ekman, R. 3506
El-Hadidi, M. N. 5489
El-Kassaby, Y. A. 7098
El-Sayed, A. B. 7001
El-Sheikh, A. M. 988
Elbourn, C. A. 6199
Eldridge, K. G. 3463
Eldridge, R. H. 3535
Élemanov, Ch. Z. 3905
Elfes, H. 3879
Elgersma, D. M. 4899, 4900, 5350, 7173
Eliasson, M. 6273
Elkins, J. B., Jr. 5251
Elkins, N. Z. 3063
Elkinton, J. S. 804, 830
Ellefson, P. V. 5534
Elliot, R. A. 1987
Elliott, A. B. 2561
Elliott, D. A. 6307
Elliott, D. M. 1927, 1947
Elliott, H. J. 818, 821
Ellis, J. C. 1070
Ellis, R. A. 422
Ellis, R. C. 41, 3739
Ellis, T. H. 959
Ellis, W. D. 4078
Elliston, J. E. 2295
Elmore, W. 2370
Elner, J. K. 5791
Elovirta, P. 6336
Elowson, S. 2209
Elsner, G. H. 1302, 5528, 6195
Elsner, R. 4401
Elwes, H. W. G. 6228
Emanuel, W. R. 3425
Embree, D. G. 4971
Emel'yanchik, G. M. 6037
Emery, C. 3259
Emets, G. P. 586
Emmerich, M. 1572
Emmerich, W. 6196
Encinas, J. E. 961
Enda, N. 3630, 4983, 6185
Endo, J. 5461
Endom, W. 6480
Endtmann, K. F. 6553
Eng, K. 4450
Engebrecht, B. 2197
Enghardt, H. G. 7313
Engle, D. M. 2608
Engle, J. A. 7316
Enright, N. J. 228
Entwistle, P. F. 2976
Eppenga, R. 6323
Epps, G. A. van 5396
Erdman, J. A. 3371
Erdmann, G. G. 1418
Eremeev, A. G. 2487
Eremin, V. M. 4781
Eren, T. M. 5556, 6276
Ericson, O. 6327, 6753, 6754
Ericsson, A. 697, 2211, 2215
Erikson, T. 339
Eriksson, A. 4093
Eriksson, G. 326, 332, 742
Eriksson, H. 6706
Eriksson, H. E. 6595
Eriksson, L. 6476, 6575
Eriksson, O. 4284
Erismann, K. H. 1475
Ermakov, B. S. 1361
Ermolova, L. S. 4594
Ero, I. I. 6201
Errico, D. 3303
Erskine, A. J. 443
Ertl, J. 3882
Esayan, A. G. 438
Esbenshade, H. W. 197
Eschner, A. R. 5194, 7304
Escudero, J. C. 3015
Espejel, I. 3279
Esplin, D. H. 4042
Esser, M. H. 2637
Essmann, H. 6320
Estes, K. M. 1407
Estévez, M. P. 691
Esuruoso, O. F. 4158
Etholen, K. 6564
Ethridge, F. G. 1498
Etnier, E. L. 6335
Ettershank, G. 3063
Euale, L. R. 4194
Euler, D. 887
Euler, D. L. 5498
European Communities, Commission 2478
Evans, G. 1790
Evans, J. 1346, 3127, 3151, 6238, 6242, 6626
Evans, K. E. 1259
Evans, T. F. 7316
Evans, W. J. 1309
Everest, F. H. 1786
Everett, R. L. 5065
Everhardt, G. 5800
Evers, F. H. 1420, 4459, 5854, 5855
Evert, F. 1450, 6295
Everts, D. 1026, 2010, 4543, 5198
Evrard, R. 359, 584, 2021
Ewel, K. C. 931, 4995, 6886
Ewell, P. T. 484
Ewing, B. 864
Ezaki, T. 7108
Ezcurra, E. 2418
Ezell, A. W. 1556, 5518
Fabbio, G. 2623, 6365, 6488
Fabiani, J. L. 5542
Fabre, J. P. 5990
Faeth, S. H. 2326
Fagerström, T. 2228, 2231
Fagnani, A. 781, 3522
Fagoonee, I. 3712
Fahn, A. 224
Fahnestock, G. R. 4757
Fairhurst, A. 4114
Fairman, R. G. 2885
Falcini, L. 7177
Falck, J. 6439
Falk, S. O. 2200, 2205
Falkehag, I. 5572
Falkenhagen, E. R. 497, 535
Falz, D. 7002
Familton, A. K. 6307
Fang, G. M. 3543
Fang, Y. C. 6198
Fanlo, F. J. 6235
Fardjah, M. 2103
Farge, T. la 737, 1197, 6385, 7099, 7107
Fargo, W. S. 832, 3569, 4252, 5406
Faribault, P. 5621
Farmer, E. E. 3998, 4304, 4305
Farmer, N. 861
Farmer, R. E., Jr. 543, 1358
Farnell, G. K. 6852
Farnham, R. S. 4440
Farooqui, M. I. H. 5678
Farooqui, P. 4072, 6148, 6154
Farrar, J. F. 666
Farrar, R. M. 151, 4575, 5524, 5733
Farrar, R. M., Jr. 1073
Farrell, E. P. 656, 657
Farris, M. E. 866
Farris, S. H. 1627
Fasehun, F. E. 4009, 4085
Fashler, A. 1353
Fashler, A. M. K. 1352
Fasidi, I. O. 3814
Fasoranti, J. O. 4958
Fast, P. G. 2943
Fattakhov, I. R. 4101
Fatzinger, C. W. 4956, 5993
Fauck, H. 6553
Faulds, T. 1014
Faulds, W. 1243
Faveleau, J. C. 550
Favero, R. del 5701
Favre, A. 1475
Favre, J. M. 95
Favreau, J. 104
Fayle, D. C. F. 1082, 1427, 1489, 2767
Fazlul Hoque, A. K. M. 2482
Fearnside, P. M. 1861
Fechner, G. H. 305, 1931
Fedde, G. F. 4946
Fedde, V. H. 4946
Federer, C. A. 4609
Fedorchuk, V. N. 2832, 5909
Fedorov, E. A. 4065
Fedorov, I. A. 2990
Fedorov, N. I. 1631
Fedorova, A. I. 1562
Fedorova, E. E. 4155
Fedoseev, I. A. 4547
Fedosimov, A. N. 6694
Feduccia, D. P. 5519
Feeny, P. 3617
Fehrenbacher, J. B. 1315
Feiler, S. 5296, 6871
Feinbrun-Dothan, N. 5879
Feklistov, P. A. 4611, 5035
Feldman, R. M. 2959
Feldmann, H. 3307
Feliksik, E. 7391
Felix, R. 3703
Feller, M. C. 3740, 3742, 5447, 5453, 7065
Felton, K. 37
Felton, K. C. 6928
Feng, H. 5426
Ferell, R. S. 4603
Ferenczy, J. 877
Feret, P. P. 6184
Fergus, I. F. 3426, 3740
Ferguson, I. S. 2665, 4514
Ferguson, K. 5581
Ferguson, R. B. 2562, 5013, 5022
Ferguson, T. S. 1805
Ferguson, W. 2005
Ferlin, G. R. 1289
Fernandes, C. T. 3263
Fernández, A. López 873
Fernández Haeger, J. 873
Fernandez, I. J. 556
Fernandez-Lopez, J. R. 3015
Fernando, C. H. 1859
Ferng, D. M. H. 3303
Ferrand, J. C. 4772
Ferrandes, P. 155
Ferrari, F. 1160
Ferrari, G. 3260, 3262
Ferré, Y. de 711
Ferreira, F. A. 1201
Ferreira, V. F. 2178
Ferrell, G. T. 4227
Ferreyra, R. 6165
Fest, W. 1443
Festa, F. P. 6653
Feuchter, R. W. 2417
Ffolliott, P. F. 677, 881, 1866, 2826, 3023, 4579
Fibiger, W. 6478
Fichant, R. 3016
Fichter, U. 1411
Fick, W. H. 2777
Fiddick, R. L. 1208, 1687
Fiebiger, G. 3056
Fiedler, H. J. 253, 2392, 2402, 2534, 2557, 2842, 5531, 6435, 6841
Field, D. B. 53
Field, J. E. 1027
Field, R. C. 3302
Fife, D. N. 3740
Fight, R. D. 2058, 3990, 4443
Figo, M. L. 3262
Figueroa, J. C. 85
Filina, N. I. 4782
Filip, G. M. 5485, 5961
Filipek, Z. 3412
Filipello, S. 3346
Filipovich, L. 4815
Finch, D. M. 4283
Findeis, J. 4944
Finet, Y. 2338
Finger, Z. 726
Fink, S. 4777
Finklin, A. I. 2079
Finland, Metsäntutkimuslaitos 6441
Finland, Suomen Metsätieteellinen Seura 6322
Finlayson, W. 6199, 6244
Finley, R. J. 391
Finnegan, R. J. 1743, 4248
Finnis, M. 6044
Firman, I. D. 401
Firth, A. 539
Fischer, B. C. 4809, 5523
Fischer, D. 3690
Fischer, F. 258
Fischer, H. 3795
Fischer, W. C. 1530, 1535, 1538, 1539, 1543, 1544, 2134, 5800
Fiscus, E. L. 3740
Fish, C. B. 1828
Fish, E. B. 1825
Fisher, J. B. 2151
Fisher, J. T. 6, 19
Fisher, R. A. 6041
Fisher, R. F. 1032, 5161, 5523, 5525, 6075
Fitzpatrick, G. E. 3648
Fitzpatrick, R. W. 2094
Flacke, W. 2245
Flake, H. 1753
Flatman, G. T. 4043
Flavell, T. H. 1698, 1700, 2328
Flemer, W., III 491
Fleming, M. D. 3333
Fleming, S. C. 6247
Fletcher, J. 5870
Fletcher, J. E. 3998
Fleury, J. M. 2636
Flewelling, J. W. 1318
Flick, W. A. 5564
Flinn, D. W. 3213, 3727, 3736, 5244, 6549
Florence, L. Z. 731
Florence, R. G. 7053
Flores Rodas, J. G. 3314
Flores Rodas, M. A. 6162
Florineth, F. 1788
Florov, R. J. 2841
Flower-Ellis, J. G. K. 2201, 2216
Flower, F. B. 907, 4019
Flowers, J. F. 5501
Flowers, W. R., Jr. 3302
Floyd, A. G. 2797
Floyd, R. B. 1766

Floyd, R. L. 4283
Fluehler, H. 2068
Flühler, H. 2068
Flury, O. 979
Fodor, P. A. 7366
Foerst, K. 2293, 6704
Foet, C. P. 4391
Fogal, W. H. 990, 3646, 4264
Föhn, P. M. B. 3050
Foiles, M. W. 2349
Folkesson, B. 5748
Folkman, W. S. 1144, 1145
Foltz, J. L. 1672
Fomina, V. I. 1062
Fong, F. W. 1857
Fonseca, F. A. 3265
Fonseca, N. 3265, 4175, 5370
Fontaine, R. 1871, 3152
Fontana, A. 4854
Foo, H. T. 1771
Food and Agriculture Organization 1900, 2248, 2408, 2585, 2610, 3031, 3182, 3185, 3228, 3258, 3266, 3445, 3451, 3456, 3779, 3780, 3781, 5579, 6221, 6225, 7071, 7072
Food and Agriculture Organization, Forestry Department 5100
Foote, J. 4763
Foote, M. J. 1389
Forcella, F. 3628, 4980
Forcier, L. J. 4479
Ford, A. L. 725
Ford, E. D. 1877, 3239, 5706, 6700
Ford, H. A. 38
Ford, L. B. 473
Ford, R. G. 4286
Foreman, F. F. 3868
Forgacs, P. 5300
Fork, D. C. 4793
Forman, R. T. T. 4806
Forrest, G. I. 5931, 7093
Forrest, W. G. 2000
Forster, H. 3794
Forsythe, S. W. 3444
Fortin, J. A. 2267, 2268, 5338
Fosberg, F. R. 4801
Fosberg, M. A. 266, 1116, 4679
Fosse, E. S. del 6550
Foster, N. W. 1002, 1003, 3843, 4445, 6899
Foster, R. S. 1600, 3700
Fountain, M. S. 1486, 6725
Fournier O., L. A. 471
Fourt, D. F. 5062, 5063
Foushee, D. L. 1367
Fowler, D. 1879
Fowler, D. P. 313, 984, 1180, 1913, 2530, 4833
Fowler, G. W. 3312, 3747
Fowler, H. G. 6026
Fowler, J. M. 3803
Fowler, W. B. 4291, 5055
Fox, D. 2738
Fox, D. G. 4057
Fox, J. D. 1388
Fox, J. E. D. 1110, 4628
Fox, K. M. 3030
Fox, L., III 2684, 3331
Fox, R. C. 2317
Fraedrich, S. W. 7381
Fralick, H. J. 4530
Fralish, J. S. 1315
Franc, G. C. 1701
France, Académie d'Agriculture de France 2463, 7128
France, Centre d'Études de Géographie Tropicale 5102, 5891
France, Centre Technique du Génie Rural, des Eaux et des Forêts 91, 880
France, Club du Sahel 6349
France, Comité Français de Lutte contre les Mauvaises Herbes 1991
France, Ministère de l'Intérieur 4734
France, Station de Recherches sur la Forêt et l'Environnement, INRA 5025
Franceschi, J. P. de 3875, 3938, 4601
Francis, J. K. 215, 5521
Francke, W. 7259
Franclet, A. 5607, 6420
Franco, W. 2709
Franich, R. A. 1660
Frank, C. L. 6191
Frank, L. R. 4288
Frankel, Sir O. H. 4320
Franken, W. 2388
Frankenhuyzen, K. van 2952
Franklin, E. C. 196, 4056
Franklin, J. F. 1586, 3427, 4123, 4134, 4136, 5327, 6051
Franklin, W. T. 1498
Fraser, A. I. 4331, 4622
Fraser, D. A. 321
Fraser, D. K. 6242, 6244
Fraser, J. W. 4511, 4512, 6391, 6392
Fratoni, F. 6485
Frauendorfer, R. 522
Frayer, W. E. 3308, 3313, 3320, 6167
Frazer, P. O. 3319
Frazer, T. 2519
Frazier, J. R. 1977
Frederick, D. J. 1337, 3317, 3740, 5522
Frédoux, A. 5894
Fredriksen, R. L. 4055, 4294
Fredrikson, R. L. 4056
Freeburg, R. S. 1832
Freedman, B. 3805
Freeman, B. E. 4239
Freeman, D. C. 7003
Freeman, H. P. 4209
Fregen, D. H. 4664
Freiberg, I. A. 6817
French, D. W. 1671, 2688
French, R. E. 4049
Frenken, G. W. P. 2347, 4254
Frenzel, B. 4357
Fretz, T. A. 3200
Freundt, E. A. 5378
Frey, W. 3046
Fricke, O. 6623, 6624
Fridley, R. B. 5195, 5197
Friedrich, P. 44
Friedrich, W. 6257
Friend, D. 4728
Friend, G. R. 1299, 7285
Fries, J. 6317
Friest, E. 6624
Frigo, W. 2418
Frison, G. 2649, 3259, 3370, 5699
Frissel, M. J. 6353
Frith, W. E. 6516, 6517
Fritschen, L. 1097
Fritts, H. C. 6130
Frivold, L. H. 6727
Frochot, H. 1409, 6559, 6560
Frodsham, T. M. 4426, 4533
Froehlich, H. A. 5196
Froehlicher, R. 5542
Froelich, R. C. 4056
Fröhlich, H. J. 3466, 5610
Froidevaux, L. 754
Frolich, M. 2561
Frølund, H. 6259
Froment, A. 919
Fromm, T. W. 3317
Frommhold, H. 6638
Fronda, F. M. 58
Frondsen, W. H. 5266
Froning, K. 3896
Frost, I. A. 6306
Fruhauf, C. 5541
Fruhmann, M. 5763, 6192
Frühwald, A. 2521, 5851, 6346
Fruziński, B. 6367
Fry, G. 1390
Fry, R. D. 5499
Frykman, B. 64, 66, 6329, 6334
Fryxell, P. A. 4110
Fu, L. G. 7027
Fu Liguo 3423
Fuchigami, L. 21
Fuchs, W. 5068
Fuentes, E. R. 4115, 4116
Fuentes F., R. 462
Fugalli, O. 5535
Führer, E. 4947, 6190, 6191
Fuhrer, J. 1475
Fujie, I. 6731
Fujii, D. M. 3233, 4745
Fujii, T. 6962
Fujimoto, K. 6491
Fujimoto, Y. 6185
Fujinuma, Y. 6187
Fujioka, F. M. 4679, 4745
Fujisaki, K. 6964
Fujita, K. 5794
Fujita, M. 1551, 6961, 6966, 6967
Fukai, T. 5306, 5833
Fukazawa, K. 6968, 6969
Fuksman, I. L. 3390, 4784
Fukuda, Y. 3372
Fukuoka, K. 6284
Fukushima, Y. 5457
Fukuzumi, T. 2549
Funakoshi, S. 6284
Funk, A. 2916, 7149, 7179
Funk, D. T. 703, 1635, 3320, 5955, 7183
Funk, R. 705
Fuquay, D. M. 2132, 4029
Furch, K. 6073
Furlan, V. 2267
Furlow, J. J. 286
Furness, C. K. 2513, 2516, 5571
Furnier, G. R. 3384
Furniss, M. M. 841, 2349, 2970, 3621, 5396, 6022, 6032
Furnival, G. M. 3313
Furokoshi, T. 6183
Furono, T. 6136
Furst, G. G. 4069
Furtado, J. I. 1494, 1850, 1858, 1859, 1861, 5256
Furukawa, A. 2732, 6187
Furukawa, H. 5794
Furukawa, T. 1956
Furukoshi, T. 6180, 6197
Furuta, K. 2319, 6036, 6190
Fushimi, T. 6819, 7307
Fusi, P. 6979, 6984, 6985
Gaare, E. 4284
Gaas, A. A. 3930
Gabaraeva, N. I. 1725
Gadant, J. 5540
Gaddy, L. L. 3444
Gadgil, R. L. 1510, 2726
Gadow, K. von 611, 617, 939, 1469, 5082, 5101
Gadrinab, L. U. 4070
Gael', A. G. 646, 3360
Gaertringen, J. C. H. von, Freiherr 6574
Gage, M. 1492
Gage, S. H. 1770
Gagne, J. A. 832, 2959, 3569, 4229, 4236
Gagnon, G. 298
Gagnon, J. D. 549
Gagulaeva, A. P. 1562
Gaie, W. 757
Gain, W. S. 5526
Gajo, P. 5666
Gál, J. 5734
Galbraith, J. 6228
Gale, R. D. 2457, 3303
Galenko, E. P. 3956
Galford, J. R. 837, 7231
Galitsky, V. V. 2828
Gallagher, G. J. 6588
Gallagher, S. 2046
Gallaher, H. G. 7316
Gallais, J. 2490
Gallegos, C. M. 509
Gallina, S. 2418
Galmiche, P. 622
Galoux, A. 2051
Galvão, A. P. M. 479, 6165
Galvin, D. 6199
Gama, A. 2009
Gamaleĭ, Yu. V. 6998
Gambi, G. 1966, 6365, 6488, 6489
Gambia, CILSS/Club du Sahel Forestry Sector Analysis & Programming Mission 2489
Gamborg, O. L. 6131
Gammon, P. T. 1099
Gan, Y. Y. 1852
Gand, H. in der 3035, 3041, 6361
Gandullo, J. M. 6235
Ganguli, B. 5469
Ganns, R. A. 6658
Ganter, H. 1419
Ganyushkin, E. V. 5311
Gao, C. C. 2107
Gao, Y. 2299, 5974
Gaplevskiĭ, B. P. 6536
Gara, R. I. 846, 2005, 3626, 4958
Garâs, T. 235
Garau, R. 4898
Garay, I. 1119
Garber, M. P. 137
García, B. 2859
Garcia, G. 3249
García-Manjón, J. L. 767
García, O. 1869, 6217
Garcia-Quintas, M. A. 7369
Gardan, L. 4919
Gårdh, R. 6459
Gardiner, A. S. 1876, 1881
Gardiner, L. M. 836, 2367, 4194
Gardiner, R. 5782
Gardner, A. C. 5173
Gardner, D. E. 1655
Gardner, I. C. 2270
Gardner, J. A. F. 3781
Gardner, R. E. 1304
Gardner, W. E. 3266, 5522
Garg, A. 6145
Garg, K. L. 7125
Garg, V. K. 1509
Gargiullo, P. M. 3622
Garibaldi, A. 7144
Garilov, Ch. 4555
Garlen, H. E. 1866
Garlipp, R. C. D. 6366
Garlo, A. S. 4967
Garraway, E. 4239
Garrec, J. P. 667, 2269, 3387
Garrett, G. P. 3030
Garrett, H. E. 149, 2264, 2265, 2873
Garrett, L. D. 3302
Garrett, P. W. 1345, 5940, 6183
Garrido, N. 4851
Garrier, G. 5541
Garrison, R. A. 4843
Garsed, S. G. 666, 3382
Garthwaite, D. K. 3919
Gärtner, E. J. 3465, 3809
Garton, E. O. 3314
Garton, S. 4440
Gartside, G. 530
Gary, H. L. 1781, 2749, 3657, 5047, 5486
Garzon, P. 3013
Gasbarro, A. F. 1441
Gascoigne, P. E. 6250
Gash, J. H. C. 5459, 6076
Gashwiler, J. S. 2370
Gasparriai, G. 5637
Gassebner, H. 3027
Gastal, F. 2450
Gates, B. 2177
Gates, H. M. 3754
Gathy, P. 2021, 2416, 3686, 6160
Gatilov, Yu. V. 5827
Gaud, W. S. 7268
Gaur, R. C. 7017
Gaussen, H. 246
Gautam, V. K. 6155
Gauthier, B. 6557
Gauthier, R. 4137
Gautschi, A. 2378

Gavelis, V. 4237
Gavrilov, V. A. 6791
Gavrilyuk, V. A. 5863
Gavyalis, V. M. 4237
Gaynor, D. L. 577
Gbile, Z. O. 5314
Gedeonov, L. I. 5789
Gedney, D. R. 3311
Geer, S. F. 4240
Geertsema, H. 417
Gehrmann, J. 2581
Geist, J. M. 2370, 6056
Geiszler, D. R. 4958
Geldenhuys, C. J. 128, 1552, 5321
Gelens, H. F. 3077
Gellini, R. 154, 1939, 2180
Gembarzewski, A. 4675
Gemignani, G. 3261
Gemignani, P. 3532, 3533
Gendle, P. 775, 776
Generalao, M. L. 2621
Genssler, H. 3684
Gent, D. L. van 2722
Gentle, S. W. 6308
Gentry, J. P. 5201
Genys, J. B. 6183
George, C. W. 4044, 4758, 5269
George, M. 1022, 1776
Georgevits, R. P. 5428
Georgiev, G. I. 4501
Georgopoulos, S. G. 176
Geping, Q. 7357
Gergacz, J. 364
Gerhold, H. D. 489, 7386
German Federal Republic, Bayerischen Bauernverband 3169
German Federal Republic, Biologische Bundesanstalt für Land- und Forstwirtschaft 2877
Germann, P. 912
Germishuizen, P. J. 5167
Gerold, D. 4616, 6746
Gerrettson-Cornell, L. 387
Gerwen, C. P. van 2898
Gessel, S. P. 2005, 3738, 3741, 6164, 6431
Getahun, A. 479
Getter, J. R. 1071, 3286, 3320
Geurken, J. 5688
Gewald, N. J. 475, 5113
Geyer, W. A. 1460
Gezelius, K. 5260
Ghani, M. A. 5183
Ghose, M. 6943
Ghosh, R. C. 1011, 1777, 1920, 2102, 2880
Ghosh, R. N. 4922
Ghosh, S. K. 4149, 5378, 6186
Ghouse, A. K. M. 3410, 6937
Giacomini, V. 943
Gianinazzi-Pearson, V. 5334, 7131
Giannini, R. 2256, 3473, 5603
Gianno, R. 5679
Gibbons, F. D., III 12
Gibbs, J. N. 4896, 6028
Gibbs, K. C. 7368
Gibson, K. E. 4251
Giefing, D. 4656
Gierman, D. M. 4317
Giertych, M. M. 5309, 5591, 6180, 6181
Giese, R. L. 1214, 1702, 2947
Gifford, D. R. 3757
Gifford, R. M. 530
Gigliello, K. A. 3317
Gil, N. 5455
Gilbertson, R. L. 766
Gilchrist, A. N. 3226
Giles, R. H., Jr. 2459
Gill, A. M. 1546, 6904, 6907
Gill, D. S. 3947
Gillen, K. J. 1640, 2284
Gilliam, C. H. 18, 115
Gillieson, D. S. 6203
Gillions, L. 6305
Gillis, M. 3264, 3265
Gillison, A. N. 4130
Gillmor, D. A. 6256
Gilman, E. 4019
Gilman, E. F. 907, 4019
Gilmore, A. R. 659, 1315, 3808, 4444
Gilmore, J. S. 4330
Gilmour, J. W. 2920
Giltrap, N. J. 751, 3487, 4856
Gimbarzevsky, P. 4659
Gimbel 3394
Giordano, E. 158, 2611
Giovannetti, G. 4854
Giresse, P. 5893
Girolami, V. 3592
Girs, G. I. 1562
Gisotti, G. 6105
Giss, W. 5551
Giumelli, J. 1799
Gjerstad, D. H. 3847
Gjølberg, R. 2074
Gladen, F. H. 1145
Gładysz, A. 1127
Glaría, G. 6160
Glastra, T. F. 6094, 6452
Glat, D. 28
Glatzel, G. 6821
Glavaš, M. 1662, 4177
Glencross, R. N. 1799, 1810, 1814
Glenn, A. R. 3502
Glerum, C. 130, 131, 132, 693, 1560, 5171, 5176, 5177
Glinski, R. L. 3030
Glintić, M. 4463
Glossop, B. L. 906
Glück, P. 3153, 3161, 6102
Glushenkov, I. S. 4580
Gnanaharan, R. 6186
Godby, E. A. 4664
Goddard, R. E. 4422
Godefroid, C. 1134, 3217
Godkin, C. H. 3742
Godkin, C. M. 3739
Godman, R. M. 1100, 1418
Goebel, J. M. 3760
Goedecke, M. K. 6283
Goenaga, C. 3443
Goës, E. R. 3262
Goethe, J. W. von 6219
Goff, L. D. 4754
Goffin, R. 1896, 3655
Goheen, D. J. 2883, 5485, 5961
Goix, J. 4207
Golan, Y. 177
Golden, M. S. 1072
Golding, D. L. 4692
Goldsmith, E. 6224
Goldsmith, F. B. 514, 3862, 6500
Goldstein, E. L. 982
Goldstein, I. S. 6301
Goldstein, R. A. 4701
Golet, F. C. 5908
Golfari, L. 5585
Golikova, O. V. 2775
Golley, F. B. 1252, 1850
Gollob, S. K. 4221
Golomazova, G. M. 1562, 4789
Golovashchenko, V. P. 3960
Goloyad, B. Ya. 6544
Gomes, A. L. 3265
Gomes, A. V. 4776
Gomes, J. M. 553, 554, 2994
Gomez-Bustillo, M. R. 2948
Gómez Gutiérrez, J. M. 2860
Gómez, J. M. 2859
Gómez-Pompa, A. 1856, 3427
Gong, W. K. 3858
Gonzaga, R. T. 4071
Gonzales G., J. 1161
Gonzalez-Bernaldez, F. 7369
González Rodríguez-Córdoba, J. M. 873
González Rondón, O. 3443
Good, J. E. G. 1834, 1884
Good, R. B. 6909
Goodall, R. A. 4353
Goodfellow, J. W. 2605
Goodfellow, L. C. 4659
Goodfellow, M. 645
Goodfellow, S. 7358
Goodland, R. 2497, 6100
Goodrick, G. N. 3324
Goodwin, J. G., Jr. 883, 7266
Goodwin, O. C. 7141
Goor, C. P. van 2407, 3078
Gorbanov, S. 552
Gorbunov, A. F. 806
Gorden, R. 5518
Gordon, A. G. 5502, 6242, 6244, 6405
Gordon, D. T. 1593, 3861
Gordon, J. C. 370, 2005
Gore, W. T. 6201
Gorlushkina, V. P. 5986
Gorman, J. R. 5081
Górnaś, E. 1704
Gornicki, P. P. 1305
Gornostaeva, L. I. 4786
Gorte, J. K. 1540
Gorte, R. W. 1540
Gortinsky, G. B. 710
Goryainov, V. M. 6089
Gosling, D. C. L. 6019
Goss, O. M. 5340
Gosselink, J. G. 3444
Gösswald, K. 1744, 1745
Goswami, P. C. 7342
Gosz, J. R. 1505, 2090, 4643, 5252
Goto, K. 6705, 6849
Goto, M. 3669
Goto, T. 6136, 6879
Gottfried, G. J. 603, 4579
Gottlieb, O. R. 3209
Goudet, J. P. 2598
Gough, L. P. 3371
Gouin, F. R. 7
Goulding, M. 2381
Goulet, M. 6793
Gourbière, F. 3943
Gourley, J. 3338
Gourret, J. P. 2269
Goussard, F. 2323, 4216
Govi, G. 169, 4882, 5488
Govindan, R. 2956
Govindu, H. C. 4148, 5378
Goyal, Y. 2552, 6152
Goyer, R. A. 4205
Graboski, M. 531
Graça, M. E. C. 3211
Grace, J. 886
Grace, L. J. 2876, 5339, 5944, 5945
Graf, F. 2759
Grah, O. J. 3985
Graham, A. W. 4130
Graham, J. D. 1140
Graham, L. F. 5197
Graham, R. T. 112, 4585, 4613
Graham, T. 1472
Grainger, A. 500
Gralicki, L. 1231
Grammel, R. 5671, 6474
Grandjot, W. 7332
Grandjouan, G. 1173
Grandstaff, T. B. 1873
Grandtner, M. M. 7051
Granhall, V. 2219
Graniti, A. 165
Granskog, J. E. 6603
Granstam, S. 5566
Grant, D. 518
Grasso, V. 152, 162, 3513
Gratkowski, H. 3887, 5184
Graves, C. L. 790
Graves, D. H. 3681, 3761, 4307
Graves, R. C. 790
Gray, D. H. 5053
Gray, H. 1527
Gray, H. W. 4757
Gray, J. 5093
Gray, J. R. 3803
Gray, L. M. 2795
Gray, T. G. 4997
Grayet, J. P. 2066
Grayson, A. J. 6242, 6243
Greaves, A. 937, 6138
Greco, I. 5549
Greco, M. 5549
Green, B. 2937, 3692
Green, C. L. 7092
Green, D. J. 2260
Green, J. P. 39
Green, L. M. 3349
Green, R. N. 6834
Green, T. C. 2738
Greenbank, D. O. 815, 4226
Greenblatt, J. A. 856
Greentree, W. J. 3917
Greenwood, L. 2659
Greer, G. L. 3666
Gregersen, H. M. 3304
Gregerson, H. M. 6280
Gregoire, J. C. 2338
Gregori, M. M. 493
Gregorius, H. R. 4841, 7090
Gregory, G. F. 5351
Gregory, J. 4780
Gregory, J. D. 4428
Greig, B. J. W. 1630, 2287, 5346, 6244
Greig, P. J. 1826, 3340, 4319
Grelen, H. E. 1761, 5020, 5024
Gremmen, J. 2310, 2925, 4174
Grene, S. 3873
Gresham, C. A. 6831
Gresswell, S. 3678
Grewal, S. S. 2420
Grey, D. C. 1112
Grieg, P. J. 41
Grier, C. C. 2030, 2031, 2038, 3119, 3738, 4848
Grierson, A. J. C. 7026
Griesbach, J. C. 3326
Griess, O. 3921
Griffin, A. R. 2532
Griffin, D. H. 364
Griffin, D. M. 3781
Griffith, J. J. 2445
Griffith, J. S. 889
Griffiths, K. J. 1689, 2974
Grigal, D. F. 3946, 6858
Griggs, M. M. 3516
Grigor'eva, S. O. 5909
Grigorjeva, S. O. 2832
Grijpma, P. 3636, 6010
Grimal'skiĭ, V. I. 872, 5986
Grimes, R. F. 4598
Grimm, R. 7311
Grip, H. 2198, 2199
Gritsenko, V. V. 418
Grizzard, T. 2109
Grochowski, J. 1454
Groenewoud, H. van 1784
Grondin, P. 4138
Grone, C. von 3246
Groome, J. G. 6306
Groot, P. de 1240, 1737, 2356
Grose, R. J. 4321
Groshens, M. C. 5542
Gross, H. L. 1676, 2945, 4157, 5514, 5950
Gross, M. 982
Grosscurth, W. 3470
Grossmann, H. 6232
Grossoni, P. 154, 1939
Grove, T. S. 3735
Groves, R. H. 6904
Gruber, F. 6060
Gruber, M. 2234
Gruell, G. E. 2754
Gryn-Ambroes, P. 2422
Grzeczyński, T. 5263
Gualdi, V. 2470, 2644, 2667
Guan, X. C. 5426
Guellec, J. 5235
Guerrero, M. C. 2718
Guèvremont, H. C. 439
Guha, S. R. D. 1056
Guidemond, L. 4352
Guillard, J. 5538, 5540, 5542
Guillard, J. P. 3780, 6160
Guillaumet, J. L. 943
Guillaumin, J. J. 4880
Guillebon, E. de 2398
Guinness, W. M. 4428
Guinochet, M. 5878
Guiot, J. 3707
Guiran, G. de 6185
Gul, H. 5433, 6042
Gul'binene, N. P. 4418
Guldin, R. W. 4518, 5199, 5619
Gulick, F. A. 5104

Gullberg, U. 337
Gumpf, D. J. 5378
Gunaratnam, D. J. 1858
Gunatilleke, C. V. S. 4127
Gunatilleke, I. A. U. N. 4127
Gundaeva, E. I. 6454
Gündel, L. 2997
Gundermann, E. 4340, 5755, 6253, 6269, 7303
Gundry, C. S. 4353
Gunnersen, T. H. 6308
Gunter, J. E. 4672
Günther, M. 3900
Günther, W. 3661
Günzl, L. 3464
Guo, X. Z. 7150
Gupta, B. K. 1228
Gupta, P. C. 3417
Gupta, R. K. 3010
Gupta, S. C. 6155
Gupta, S. K. 5146
Gupta, T. 3996
Gupta, V. C. 6157
Gurumurti, K. 4193
Gur'yanova, T. M. 7256
Guseĭnov, E. S. 5963
Gusev, I. I. 3927
Gussone, H. A. 6368
Gussone, H. J. 3882
Gust, L. W. 4855, 5948
Gustafsson, J. 296, 6403
Gutiérrez, J. R. 4115, 4116
Gutman, T. S. 574
Guttay, A. J. R. 5620
Guy, E. M. 386
Guymon, E. P. 4986
Guyot, F. 5543
Guz', N. M. 1547
Guzman, E. D. de 2303, 4161
Gyanchand 2527
Gyseghem, P. Van 265
Ha, C. O. 1852
Haack, R. A. 4981
Haag, D. 3320
Haag, H. P. 3368
Haarlaa, R. 6480
Haars, A. 1634
Haas, R. H. 5026
Haavisto, V. F. 3859, 6402
Häberle, S. 6581
Habermehl, A. 1633, 2278, 7154, 7155
Hachenberg, F. 3690
Hacker, S. C. 4219
Hackney, O. P. 1223
Hadders, G. 335, 744
Haddock, P. G. 1363, 3115
Haddock, W. H. 5197, 5200
Haddon, B. D. 3820
Hadi, S. 3499, 5947
Hadley, M. 943
Hadri, H. 581
Hädrich, F. 1123
Hadži-Ristova, L. 5401
Haegar, J. Fernández 873
Haffner, W. 7305
Hafker, W. R. 6767
Hafley, W. L. 1868, 3310
Hafner, F. 6268
Hager, B. C. 1839
Hägglund, B. 1461
Hagihara, A. 6180
Hagman, M. 348, 6182, 6183, 6184
Hågvar, S. 2093
Hahlbrock, K. 6131
Hahn, D. C. 4806
Hahn, J. T. 3311
Haibara, K. 6432
Haig, R. A. 5493
Haigh, H. 674
Haight, L. T. 3030
Hain, F. P. 3559, 4206
Haines, B. L. 1109
Haines, D. A. 1138, 4034
Haines, L. W. 5516, 7223
Haines, S. G. 7223
Hair, D. 6292
Hakkila, M. 6806
Hakkila, P. 6369, 6479
Hálaj, J. 3295
Halambek, M. 3512
Halbach, T. 4299
Halbig, W. 5565
Halbwachs, G. 6102
Halffter, G. 943
Hall, D. J. 6035
Hall, D. O. 70, 3189
Hall, F. C. 2370
Hall, J. B. 1592, 3420
Hall, J. D. 448
Hall, J. P. 1393, 2784, 4411
Hall, M. J. 3714
Hall, P. M. 2996
Hall, R. B. 313, 2005, 6377, 7316
Hall, R. J. 4658, 4660, 4756
Hall, T. H. 4617
Hall, T. J. 5527
Hall, T. L. 3647
Hall, W. B. 4276, 5437
Hallaksela, A. M. 1641
Hallatou, M. 4
Hällbom, L. 256
Halldin, S. 2199
Hallé, F. 3827, 4061
Hallenberg, N. 756
Haller, J. M. 281
Hallett, R. D. 2522, 3833
Hällgren, J. E. 5260
Hallman, R. 5197
Halls, L. K. 5526
Halonen, S. 5195
Halos, S. C. 3452
Halperin, J. 1713
Halsall, D. M. 7159, 7160
Halverson, H. G. 4300, 6682
Halvorson, W. L. 5467
Ham, D. L. 7381
Hama, T. 4266, 5977, 6185
Hämäläinen, J. 6441, 6804
Hamaya, T. 6182
Hamel, D. R. 1735, 4249
Hamel, O. 1291
Hamer, R. J. 4319
Hamid, A. 2480
Hamilton, D. A. 3310
Hamilton, D. A., Jr. 4667
Hamilton, D. F. 16, 3211
Hamilton, E. 2096, 6244
Hamilton-Fletcher, N. 6250
Hamilton, H. 979
Hamilton, J. S. 3647
Hamilton, L. S. 1851
Hamilton, T. E. 3301
Hamilton, W. D. 1311, 6117
Hamilton, W. I. 2005
Hammer, A. 3155
Hammer, G. L. 2660
Hammer, W. P. 2115
Hammitt, W. E. 5075, 7367
Hammond, L. F. 1808
Hamner, L. N. 3309
Hampson, M. C. 3526
Hampton, L. A. 969
Hamre, R. H. 4624
Hanafie, S. 1899
Handa, R. 6284
Handley, D. L. 3137
Hanemann, W. M. 864
Haney, H. L., Jr. 968, 4672
Hanif, M. 2389
Hanks, L. F. 6671
Hanks, M. 1018
Hann, D. W. 1321, 1471, 2023, 2056, 3310
Hanna, M. 2327
Hannelius, S. 3241
Hannus, K. 2223
Hanover, J. W. 1972, 4837
Hans, A. S. 7116
Hanschke, D. 6257
Hanselman, D. L. 6160
Hansen, E. A. 1940, 3744, 4557
Hansen, E. M. 1633, 2005
Hansen, M. H. 2677
Hansen, R. M. 5016
Hansen, T. 6618
Hanso, M. 2870
Hanson, A. G. 963
Hansson, L. 7262, 7263, 7264
Hanstein, U. 5085
Hanula, J. L. 2941
Hapla, F. 6898
Haq, H. 1859
Hara, A. H. 2988
Harada, H. 111, 1551, 3409, 6961, 6962, 6966, 6967
Hard, J. 1392, 1695
Hard, J. S. 1703, 4275
Hardacre, A. K. 6810
Harder, M. L. 1521, 5582
Hardin, E. 2561
Hardin, K. I. 1259
Harding, D. 3087
Harding, J. S. 3862
Harding, P. T. 1877
Harding, R. G. 1089
Hardy, K. 5337
Hardy, Y. V. 3618
Hare, R. C. 2786, 5838
Harestad, A. S. 4026
Hari, P. 692, 5708
Harif, I. 5816
Harkness, C. E. 6247
Harley, J. L. 1624, 3779
Harley, R. M. 6240
Harlow, R. F. 4055, 7279
Harmon, M. E. 7371
Harms, W. R. 1024, 5249, 5520
Harnden, A. A. 1688, 4224
Harner, E. J. 4897
Harner, J. P. 5196
Harniss, R. O. 2757
Haron, H. A. H. 2412
Harou, P. 2417
Harou, P. A. 3304
Harper, J. D. 4954
Harr, R. D. 4293, 4294
Harrell, J. B. 1305
Harrell, M. O. 6020
Harrington, C. A. 3263, 4453, 4456, 5659
Harrington, G. N. 1165
Harrington, M. 2626
Harrington, M. G. 2626, 4749
Harrington, T. C. 2970
Harris, A. R. 6448
Harris, A. S. 3963
Harris, E. 1582
Harris, J. 1582
Harris, J. W. E. 6003
Harris, M. K. 5919
Harris, W. C. 4394
Harris, W. F. 1586
Harrison, A. F. 635, 1880
Harrison, T. P. 3315
Harshagen, H. 4467
Harstela, P. 6254
Hart, A. J. 1814
Hart, C. 2499
Hart, C. E. 3163, 6228
Hart, G. E. 1508
Hart, J. H. 927
Hart, P. B. S. 378, 6450
Hartgraves, C. R. 3305
Hartig, M. 1425
Hartley, G. R. 4030
Hartshorn, G. S. 228
Hartsough, B. R. 5196
Hartung, R. E. 3076
Hartwig, F. 3780, 6293
Harvey, A. E. 1495, 1496, 2261, 4693, 4694, 4762, 6864
Harvey, A. M. 4532
Harvey, E. M. 5497
Harvey, S. J. 2757
Harwood, G. 1794
Harzmann, L. J. 6893
Hasan, S. M. 4434, 4562
Haschke, P. 6249
Hase, H. 2716
Hasegawa, K. 6705
Hashizume, H. 538, 1935
Haskett, M. 4275
Haskett, M. J. 2991
Hassan, A. E. 5197, 5200
Hassan, A. M. 3817
Hassan, M. A. 5435
Hassanyar, A. S. 2822
Hasse, W. D. 6748
Hassell, M. P. 7257
Hastings, F. L. 3648, 4267, 4269, 7260
Hata, K. 2965
Hatakeyama, S. 4711, 6182
Hatch, C. R. 910, 1466, 4223
Hatch, R. 3623
Hatch, T. 1855
Hatchell, G. E. 5411
Hatfield, D. C. 5199
Hathaway, R. L. 80
Hatiya, K. 5658
Hattemer, H. H. 4841, 7088
Hattori, S. 3351
Hatzistathis, A. 6360
Haub, H. 2692, 2696, 6059
Hauenstein, E. B. 1137
Hauke-Pacewiczowa, T. 1150
Haukioja, E. 6976, 6977, 6978, 7213
Haupt, H. F. 2386, 2700
Havel, J. J. 5071
Haveraaen, O. 1270, 1515, 6521
Haverty, M. I. 2363
Hawk, G. M. 4134
Hawkes, B. C. 4757
Hawkins, N. H. 1281
Hawksworth, D. L. 761
Hawksworth, F. G. 1206, 1669, 2312, 3554
Hawley, K. E. 1811
Haworth, J. 4376
Haworth, M. N. 2609
Hawryś, Z. 1130
Hay, R. L. 5516
Hayashi, S. 4783
Hayes, A. J. 4912
Hayes, D. P. 75
Haylock, O. F. 6305
Haynes, R. 954, 957
Haynes, R. W. 6787
Haywood, J. D. 5198, 5518
Hazen, C. R. 825
Hazenberg, G. 4661
He, Y. C. 3492
He, Z. Y. 7328
Healy, J. 5137
Heaman, J. C. 1180
Heather, W. A. 360, 361, 1663, 2914, 3539, 3540, 3542, 5373, 5966, 5983
Heavilin, D. G. 985
Hebb, E. A. 6527
Hecht, S. B. 6100
Heckemann, H. 3269
Hecq, P. 3148
Hect-Poinar, E. I. 7172
Hedden, R. L. 847, 5522, 6015, 7234
Heddle, E. M. 5071
Hedegart, T. 3451
Hedges, M. J. 5959
Heding, N. 2630
Hedlin, A. F. 5397
Hedlund, M. S. 5519
Hedlund, R. C. 4946
Heede, B. H. 1773
Heelas, B. V. 2606
Heeney, C. J. 1427
Hegetschweiler, T. 6356
Hegyi, F. 4662, 4664
Heiberg, H. H. H. 596, 1468
Heide, O. M. 1563
Heidmann, L. J. 1359, 4495, 4792
Heij, W. 5196, 6164, 6477
Heikinheimo, M. 6160
Heikurinen, J. K. K. 5505
Heil, R. D. 1498
Heiligmann, R. 7384
Heilman, P. 2032, 3116, 4003
Heinemann, P. 757
Heinrichs, H. 2124
Heinsdorf, D. 1943, 2724, 7326
Heinselman, M. L. 3428
Heinze, M. 2402
Heiramo, T. 6254
Heisig, K. 3394
Heitor, F. P. C. 3266
Helander, M. 68
Helbig, K. 6232
Helburg, L. B. 863, 1643
Helfman, R. S. 2131
Helińska-Raczkowska, L. 4081
Heliövaara, K. 2935, 4951
Hellawell, C. R. 6305

Helle, T. 3663
Heller, D. 3678
Heller, R. C. 1729, 3314, 6198
Helles, F. 1890, 2073, 3347
Helliwell, D. R. 635, 1880, 6631
Hellkvist, J. 2206, 2215
Hellrigl, B. 5701
Hellum, A. K. 1051, 5144, 5598
Heltne, P. G. 3756
Helvey, J. D. 4291, 5055
Hemond, H. F. 4676
Hemstrom, M. A. 3427
Hendee, J. C. 3095, 6196
Henderson, G. S. 2109
Henderson, L. E. 6877
Henderson, L. T., Jr. 5589
Hendrick, E. 3248
Hendrickson, J. C. 5526
Hendrix, J. W. 5, 35, 758
Hengst, F. R. 6644
Henman, D. W. 3812
Henne, A. 2674, 3302, 3685
Hennes, R. W. 1508
Henney, C. J. 4283
Hennig, R. 7288
Henny, C. J. 2121
Henry, J. 526
Henry, J. F. 5572
Hensel, J. S. 1437
Henshaw, D. L. 4221
Hepp, T. E. 4596
Herbauts, J. 1118
Herbst, J. R. 2370
Herbst, M. 3882
Herlocker, D. 3695
Herman, F. R. 3936
Hermann, R. K. 704, 3422, 3762, 6359, 7024
Hernández Comacho, J. 3443
Herrera, R. 943, 1507, 2052
Herrick, O. W. 1603
Herring, L. J. 3234
Herrington, L. P. 4703
Hertel, G. D. 1442, 2955, 3320, 5011
Hertel, H. J. 1365, 5159
Herwitz, S. R. 7032
Heth, D. 649, 1789
Hetherington, J. C. 3322
Heupt, W. 3882
Heusser, C. J. 3432
Heuveldop, J. 2081, 7331
Heuzé, G. 5540
Hevin, H. 2639
Hewett, P. N. 1799
Hewlett, J. D. 1273
Heybroek, H. M. 3265, 5350, 7173
Heydeck, P. 5345
Heytze, H. 2426, 6194
Heytze, J. C. 2432, 6195, 6196
Hibbert, F. A. 6127
Hibbin, J. 2937
Hibbs, D. E. 4809
Hickok, K. H. 3315
Hicks, R. R., Jr. 432, 731
Hidasi, G. 5647
Higginbotham, K. O. 5702
Higgins, A. E. 3030
Higgins, D. G. 6913
Higuchi, H. 5375
Higuchi, T. 4080, 5294, 5302
Hildebrand, E. E. 3369
Hildebrand, M. J. 5418
Hildebrand, P. von 3443
Hildebrandt, G. 626, 3328, 3329, 6167
Hilgen, P. R. 1887
Hill, D. G. 4319
Hill, E. P. 184
Hill, J. 3721
Hillam, J. 5080
Hillerdal-Hagströmer, K. 2206, 2215
Hillis, W. E. 225
Hillman, G. R. 1271, 4692
Hilmi, H. A. 3779, 3781
Hilt, D. E. 4548, 6583, 6584
Hilton, G. D. 6377
Hiltunen, R. 7084
Himelick, E. B. 555
Himelick, K. J. 555
Hinckley, A. D. 1865
Hinckley, T. M. 633, 6165, 6999
Hindal, D. F. 4897, 4915
Hindle, R. 1757, 4270
Hinds, H. R. 4802
Hinds, L. W. 2561
Hinds, T. E. 4909
Hinesley, L. E. 2560
Hingston, F. J. 655, 7134
Hinrichsen, D. 943
Hinterstoisser, H. 3696
Hinz, J. H. 2561
Hippa, H. 5865, 6045
Hippeli, P. 6434
Hippoliti, G. 6570
Hirata, E. 3230, 3231, 3232
Hirata, S. 3538
Hiratsuka, N. 1202, 4925
Hiratsuka, Y. 1644, 1674, 1675, 2906, 4169, 5144, 6185
Hirsch, S. N. 4058
Hiruki, C. 6186
Hisamatsu, S. 7203
Hiscock, D. 3225
Hitchcock, H. C., III 3317, 4569, 6684
Hite, W. A. 3311
Hiwatashi, M. 6211
Hladik, A. 1252
Ho, C. P. 5635
Ho, S. Y. 1594
Ho, T. W. 6181
Hobbs, D. 4299
Hobbs, J. A. 449
Hobbs, S. D. 6202
Hobson, B. 6196
Hochmut, R. 4213
Hocke, R. 2674
Hocker, H. W., Jr. 269
Hocker, R. 2759
Hocking, J. D. 6305
Hocking, R. R. 1223
Hodges, C. S. 521, 1201, 2462, 6185, 6186, 6187, 6188
Hodges, C. S., Jr. 7165
Hodgkinson, K. C. 1165
Hodgkinson, R. S. 6044
Hodgson, G. W. 2387
Hodgson, T. J. 494, 5167
Hodór, C. 2698
Hodson, A. C. 3398
Hodson, M. J. 2123
Hoehne, L. M. 7037
Hoekstra, T. W. 4625
Hoestra, H. 4467
Hoff, R. J. 1200, 2905, 4906
Hoffard, W. H. 1207
Hoffer, R. M. 3333
Hoffman, G. R. 5326
Hoffman, W. 253
Hoffmann, C. 5213
Höfle, H. H. 3186, 5197, 5673
Hofmann, A. A. 5751
Hofmann, G. 2706, 3101, 3216
Hofsten, E. von 4383
Hogan, L. 10, 28
Hogans, M. L. 1831, 4739
Hoganson, H. 3304
Högnäs, T. 7351
Höhne, H. 2534, 2557
Hokanson, A. E. 5572
Hoksbergen, F. T. J. 5202
Holbo, H. R. 704, 1867
Holbuch, T. M. 4299
Holcomb, G. J. 5273
Holdaway, M. R. 3311
Holden, D. G. 3348, 3349, 6810
Holechek, J. L. 3008
Holgate, M. E. 775, 776
Höll, W. 5835
Holland, D. M. 4984
Holliday, N. J. 5407
Holling, C. S. 4945, 5385
Hollis, C. A. 4874, 5523, 5786
Hollis, C. A., III 5696
Holloway, P. 1933
Höllwarth, M. 1133
Holm, S. 233
Holmen, H. 296, 3434, 4461
Holmes, R. N. 5251
Holmes, S. B. 2361, 5006
Holstener-Jørgensen, H. 3215, 6444
Holte, A. 1449
Holte, K. E. 5015
Holten, N. E. 2629
Holtman, J. B. 5201
Holttum, R. E. 2791
Holzer, K. 736, 2865, 3464
Homechin, M. 771
Honda, K. 6483
Hong Kong, Urban Services Department 4804, 4805
Hong, L. T. 2271
Hong, R. F. 1203
Hood, I. A. 2276
Hood, J. C. 5029
Hoogh, R. J. de 2597, 2657, 3369
Hook, D. D. 3444, 4525, 5249
Hook, R. I. van 1865, 3190
Hooper, M. D. 1884
Hoose, P. M. 7356
Hopkins, M. S. 4130
Hopkinson, C. S., Jr. 5449, 5450
Hopmans, P. 3739
Horak, E. 4851
Horgan, G. 2519
Horgan, K. 2553
Horgan, K. J. 1934
Horiuchi, T. 6180
Horn, H. S. 3425
Horna Zapata, R. R. 3443
Hornbeck, J. W. 1518
Horndasch, M. 3242, 5041, 5625, 6614, 6628
Horne, I. P. 5274
Horng, F. W. 6733, 6734
Horst, W. D. van der 1089
Horton, D. A. 5564
Horton, J. H. 3389
Horton, J. S. 3030
Horton, K. W. 1079
Horvat-Marolt, S. 2824
Hosford, R. 6053
Hoshino, Y. 6863
Hosier, M. A. 4440
Hosking, G. P. 1733
Hosking, J. J. 6306
Hoskins, M. W. 1336
Hosokawa, R. T. 3180
Høsteland, J. E. 2074
Hou, T. Q. 868
Houérou, H. N. le 1285
Hough, W. A. 673, 6866
Houmard, M. A. 1895
House, L. O., IV 1866, 3320
Houseweart, M. W. 817, 4962
Howard, G. S. 7327
Howard, H. 3742
Howard, J. E. 432, 4661
Howard, J. O. 4406
Howard, R. A. 716, 2184
Howard, R. F. 2088
Howard, V. W., Jr. 2556
Howcroft, N. H. S. 3451, 3453, 3456
Howe, G. 3030
Howe, H. F. 3419, 4797
Howe, J. P. 608
Howe, J. W. 5104
Howes, K. M. W. 1799, 1813, 1814, 1817
Howse, G. M. 1240, 1676, 1688, 2356, 4224, 4943, 5511
Hoy, J. B. 3649
Hoyau, H. 5088
Hoyer, G. 2005, 3136
Hoyos, R. 2713
Hozumi, K. 2732, 6180, 6707, 6708
Hřrib, J. 2891
Hrubes, R. J. 1320, 4669
Hsieh, H. R. 5379
Hsiung, W. Y. 508, 509
Hu, H. T. 5615
Hu, S. C. 5518, 5525, 5526
Hu, T. W. 2249, 6965
Huang, F. H. 2249
Huang, M. 5594
Huang, T. S. 3259
Huang, T. Z. 4931
Hubbard, J. P. 3030
Hubbard, R. L. 6202
Hubbes, M. 359, 1630, 1631, 3508, 7146
Hubbs, C. 3030
Huber, A. L. 3998
Huber, R. F. 2561, 5144
Hubrecht, J. M. 5814
Hudak, J. 2330, 4350
Hudler, G. W. 278, 1564
Hudson, J. M. 5271
Hudson, R. J. 2376
Huerta, M. L. 2244
Huffman, R. T. 3444
Hughes, B. 1909
Hughes, C. E. 6404
Hughes, E. L. 1423
Hughes, M. K. 6127
Huguenin, B. 7132
Huguet, L. 1897, 2472
Hühn, M. 2250
Huikari, O. 6254
Hultén, H. 6460
Hummel, F. C. 591, 2471, 6228, 6243
Hummel, R. 650
Humphrey, W. A. 8
Humphreys, F. R. 37, 6906
Humphreys-Jones, D. R. 5374
Huna, A. 3161
Hunger, W. 6436
Hungerford, C. R. 883, 7266
Hunt, D. L. 7107
Hunt, J. 6815
Hunt, M. E. 4010
Hunt, P. 5378
Hunt, R. 3444
Hunt, R. S. 2353, 7169, 7185
Hunter, D. H. 5017
Hunter, I. R. 3741
Hunter, J. M. 6228
Huntley, G. D. 3393, 4194
Huntley, J. C. 5517
Huo, X. 5354
Hurditch, W. J. 4690
Husain, A. M. M. 994, 1942
Huse, K. J. 770
Hüser, R. 1007
Huss, J. 3237, 5178, 6593
Hussain, A. 5583
Hussain, A. M. M. 4847
Hussain, R. W. 5207, 5208, 5209, 5212
Hutacharen, C. 5392
Hutchins, A. 2924
Hutchins, A. S. 2274
Hutchinson, I. D. 1853, 3316
Hutchison, B. 1097
Hutchison, R. E. 4473, 4477
Hutson, B. R. 3719, 3740
Hütte, P. 665, 3154
Hüttermann, A. 1631, 1634
Huxley, P. A. 481, 482, 3086
Hůzl, F. 6333
Hwang, K. K. 6508, 6509
Hwang, S. G. 6386, 6466
Hyche, L. L. 3599, 3620
Hyink, D. M. 3320
Hyland, B. P. M. 2182
Hyland, F. 1204
Hyland, J. R. 4954
Hynum, B. G. 4245
Hyppönen, M. 3323, 6745
Hyun, S. K. 3266, 6185
Ibañez, J. J. 2712
Icely, J. D. 2354
Ifanova, M. G. 4594
Ifver, J. 742
Ignatenko, M. M. 4415
Iida, S. 6284
Iimura, T. 6192
Iisaka, J. 3334
Ikeda, T. 3630, 6185
Ikram, S. 4922
Ilahi, I. 5150
Iles, K. 3312
Il'in, A. M. 4385, 5189, 5622
Ilnytzky, S. 1703
Iloba, C. 4849
Il'yushenko, A. F. 5175, 5441, 5904

Imamura, K. 6319
Imanaga, M. 6167
Immel, R. 3267
Immerz, A. 6234
Impens, R. 921, 6160
Impens, R. A. 921
Imtiazul-Haq 5150
Inagawa, G. 6449, 6609
Infante Miranda, F. 873
Ingelög, T. 1616
Ingestad, T. 5711
Ingleby, K. 4153
Inki, M. 5590, 5828
Inman, R. 531
Innamorati, M. 6963
Innes, J. B. 4118
Innocenti, G. 4882
Inoue, M. T. 3180
Inoue, T. 6187
International Irrigation Information Center 1404
International Labour Organization 2585, 2610, 3182, 3185, 3228, 6478
International Poplar Commission 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 2869
International Union of Forestry Research Organizations 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 2727, 6161, 6162, 6163, 6919
International Union of Societies of Foresters 6160
Intini, M. 2882
Intropido, M. 7177
Iotsova-Baurenska, N. 4714
Ipatov, L. F. 6519
Ipatov, V. S. 592, 730, 5915
Ipsen, J. D. 1646
Iqbal, M. 3410
Irion, G. 6299
Irish Republic, International Energy Agency 5492
Irland, L. C. 53, 3650, 5094
Irmler, U. 6073
Ironside, G. R. 7380
Isaacs, N. P. 6305
Isaacson, D. L. 4046
Isaev, A. S. 6190
Isaeva, L. N. 356
Isakov, Yu. N. 5860
Isebrands, J. G. 2142, 2159, 4408, 5722
Isemukali, K. 6413, 6414
Isenberg, I. H. 5582
Ishida, S. 6968, 6969
Ishigaki, I. 3057
Ishihara, T. 7203
Ishii, H. 6859, 6860, 6861, 6863
Ishii, K. 2549
Ishii, M. 2383, 5247
Ishii, Y. 1925
Ishiie, T. 5378
Ishijima, T. 4994, 5378
Ishizuka, K. 2100
Ismail, M. 2486
Ismikhanova, A. A. 125
Iso-Iivari, L. 6976, 6977
Isobe, T. 6609
Issaly, G. 6557
Italy, Accademia Nazionale di Agricoltura 6481
Italy, Associazione Forestale del Trentino 3708, 4119
Italy, Azienda Autonoma di Cura e Soggiorno delle valli di Sole, Pejo e Rabbi 4119
Italy, Centro Studi per la Val di Sole 4119
Ito, S. 6187
Ito, T. 3915
Itô, Y. 6189
Itoh, S. 7362
Itoh, T. 4077, 4783
Ivanov, A. V. 6495
Ivanov, B. N. 5770
Ivanova, S. Z. 2773
Ivanova, T. G. 1562
Iven, H. H. 3689
Ives, J. D. 2404
Ives, W. G. H. 7204, 7205
Ivonin, V. M. 5057
Ivonis, I. Yu. 4090
Iwakawa, O. 6474
Iwama, T. 6192
Iwasaki, Y. 5247
Iyamabo, D. E. 479, 6201
Izlar, B. 5195, 5197, 5672
Izmailov, S. F. 4092
Jaakkola, S. 3325
Jaakson, R. 1827, 6196
Jabil, M. 948
Jacalne, D. V. 3846
Jacke, H. 6607
Jackson, A. K. H. 2085
Jackson, D. S. 3290
Jackson, G. D. 1370
Jackson, N. 5916
Jackson, W. D. 2589, 6928
Jacob, W. 2615
Jacobi, J. D. 3440
Jacobi, W. R. 4650, 5357, 5358, 5359
Jacobs, M. 3317, 4108
Jacobs, M. R. 1151
Jacobs, M. W. 2048
Jacobsen, G. 2561
Jacobsen, G. L. 5155
Jacobson, M. 3712
Jacoby, G. C. 227
Jacorelli, P. A. 6250
Jacquemin, H. 5300
Jacquiot, C. 914
Jaeck, L. L. 2005
Jäger, D. 1419
Jager, D. 3918
Jagiełło, Z. 3321
Jago, L. G. 4194
Jahn, G. 7050
Jain, R. C. 2647
Jaitly, A. K. 7125
Jaju, N. D. 1103
Jakaitis, B. 4237
Jakes, P. J. 5559, 5730
Jakkila, J. 3253
Jakobsen, B. F. 3717
Jakobsen, S. 2630
Jakobsson, R. 6403
Jakucs, P. 7050
Jalkanen, R. 3546, 3914, 4180
Jamaluddin 3498
James, J. M. 3727, 5244
James, N. D. G. 51, 4362
James, R. 6304
James, R. L. 2883, 4159
Jameson, R. E. 5238
Jamison, R. L. 5572
Jamito, C. O. 4071
Janczak, J. 1343
Jano, A. 3979, 4660
Janse, J. D. 2923, 3549, 4933
Jansen, M. J. H. 6353
Janson, L. 986, 1127
Jansson, P. E. 2198, 2199
Janutolo, D. B. 774
Janz, B. 4756
Janzen, D. H. 1252
Japan, Forest Conservation Research Team 6050
Jaramillo, A. 1953, 2561
Jardine, D. C. 6250
Jarlet, C. 5661
Järveläinen, V. P. 3156
Jarvis, J. W. 701
Jarvis, P. G. 699, 700, 5710
Jasbir Singh 5777
Jaszowski, R. 5184
Jauffret-Guerin, H. M. 48
Javeed, Q. N. 5150
Jeddeloh, H. zu 5060
Jeffers, R. M. 304, 309, 3199
Jeglum, J. K. 1095, 3876, 4131, 5627, 6506
Jehne, W. 3740
Jeng, R. S. 3508
Jeník, J. 2808
Jenkins, R. A. V. 4035
Jenkinson, J. L. 1951, 2561, 5584
Jennings, D. T. 817, 4219, 4960, 4962
Jennings, K. S. 1480
Jenny, H. 637, 638, 639
Jensen, B. 2561
Jensen, C. E. 4986, 5023
Jensen, J. F. 3386
Jensen, K. F. 3380, 3385, 6875, 6876
Jensén, P. 2210
Jensen, R. J. 2868
Jentsch, J. 6553
Jeppesen, D. J. 2370
Jérôme, R. 5735
Jerrett, P. A. 810
Jeschke, S. 5638
Jessop, R. M. 6247, 7273
Jestaedt, M. 3468, 6387
Jett, J. B. 4143
Jewell, D. C. 3515
Jewell, F. F. 3515
Jha, M. N. 1490, 1500
Jha, S. 6186
Jha, V. 6186
Jhingran, A. G. 1858
Jhingran, V. G. 1862
Jiménez Saa, H. 1279, 6199, 7344
Jinchan, L. 7357
Jing, Y. 1653
Jobin, L. 2944
Jöbstl, H. A. 6790
Jodai, S. 6879
Johann, E. 6200
Johann, K. 6812
Johansen, R. W. 1141
Johansson, E. 2634
Johansson, T. 5748
Johansson, U. 6348
Johari, B. 2013
Johns, L. C. 4731
Johnsen, T. N., Jr. 4495
Johnson, A. G. 118
Johnson, A. H. 3979, 6912
Johnson, A. S. 6061
Johnson, C. 4291
Johnson, C. T. 3303
Johnson, C. W. 3005, 5269
Johnson, D. E. 867
Johnson, D. W. 1865, 2312, 3190
Johnson, E. A. 2801, 7316
Johnson, F. D. 508, 509
Johnson, G. V. 5599
Johnson, H. J. 5166
Johnson, J. A. 4491
Johnson, J. D. 525
Johnson, K. N. 2058, 2403, 3990
Johnson, L. 5201
Johnson, M. G. 1274
Johnson, P. C. 3568, 4240, 4947
Johnson, P. S. 1028, 2264, 2265, 4493
Johnson, R. A. 7063
Johnson, R. L. 138, 188, 2005, 3444
Johnson, R. R. 2856, 3030, 3309
Johnson, R. W. 4130, 6909
Johnson, S. E. 6637
Johnson, S. G. 1842
Johnson, S. R. 1781
Johnson, V. J. 4034, 4058
Johnson, W. C. 7037, 7345
Johnson, W. L. 2688
Johnson, W. T. 865, 1242
Johnston, D. 3320
Johnston, D. R. 6201, 6228
Johnston, R. S. 2399
Johnston, W. F. 4496
Johnstone, W. D. 4582, 6600
Jokel, J. 6888
Jokela, J. J. 315, 3808
Jolas, T. 5542
Jolly, G. M. 4912
Jolly, H. 88
Jolly, J. N. 3022
Jolly, M. S. 3282
Joly, R. J. 2254
Jonas, A. 979
Jondelius, B. 325
Jones, A. R. C. 974
Jones, A. S. 4267, 4269
Jones, D. A. 2354, 3030
Jones, D. D. 4945
Jones, E. P. 4606
Jones, E. P., Jr. 139, 5519
Jones, J. G. 57
Jones, P. H. 4365
Jones, R. D. 889
Jones, R. G. 1984, 1988
Jones, R. L. 4987, 4988
Jones, W. D. 10
Jong, K. 1852
Jongens-Roberts, S. M. 4928
Jonsell, B. 2798
Jonsson, A. 345, 742
Jonsson, B. 238, 3916, 4653
Jonsson, C. 6535
Jonsson, I. 7081
Jonsson, S. 336
Jordan, C. F. 943, 1125, 1507
Jorgensen, E. 7380
Jorgensen, J. R. 1122, 5521
Joshi, D. C. 6662
Joshie, P. 6047
Joslin, A. 6240
Jovic, D. 5506
Jozsa, L. A. 1842
Jubenville, A. 1830
Juday, G. 5327
Judd, W. S. 717, 3421
Juglart, M. de 59, 2498
Juhásová, G. 7153
Juillet, J. J. 433
Jukola, E. L. 7275
Julin, B. 6273
Jullien, M. 100
Junack, H. 1050
Juneau, A. 7252
Juneja, B. R. 3112
Jung, J. A. 388
Jung, K. U. 1987
Jung, K. W. 3791
Jungbluth, H. 3237
Junge, A. 6689
Junk, W. 6073
Junk, W. J. 2246
Junttila, O. 1563
Jurd, L. 7253
Jurgensen, M. F. 1495, 1496, 2261, 3740, 4693, 4694, 4762, 6864
Jürging, P. 6095
Justice, C. O. 245
Justo, H. D. 3712
Juutinen, P. 7240
Kabara, J. J. 1205
Kabzems, A. 4394, 4592, 5470
Kachroo, P. 6157
Kader, M. S. A. 7211
Kader, R. A. 6221
Kadik, B. 2418
Kaelble, F. 1419
Kahn, F. 6365
Kahn, R. P. 5378
Kaïbiyaïnen, L. K. 3362
Kaierle, L. 3904
Kaikusalo, A. 7275
Kaila, S. 1397
Kaïlidès, D. S. 4256
Kailidis, D. S. 4256
Kaĭryukshtis, L. A. 7391
Kais, A. G. 4178, 5971
Kaiser, H. F. 966, 3305
Kajihara, M. 6688
Kalaja, H. 3906
Kalakoutskii, L. V. 3494
Kalaora, B. 5539
Kälble, F. 6258
Kalchev, P. 6786
Kalela, E. E. 1385
Kalela, E. K. 1179, 1385
Kalensky, Z. D. 6781
Kalgraf, K. 1512
Kalhöfer, E. 6257
Kälin, I. 754
Kalinin, K. K. 6495
Kalinin, M. I. 4768, 6931
Kalinina, I. V. 4842
Kalinina, V. R. 3672
Kalininskaya, T. A. 6843
Kalinkov, V. 4501
Kalkstein, L. S. 2345
Kallio, P. 5877
Kallio, T. 1630, 6188, 6254
Kalra, Y. P. 1266
Kalutskiĭ, K. K. 5588

Kalvoda, L. 4212, 4213
Kalyakin, A. B. 6545
Kam, M. de 362, 2310, 2925, 4934
Kamiizaka, M. 6475
Kamil, H. 3827
Kamiński, J. 5432
Kaminski, R. J. 3317
Kamiri, L. K. 779, 3527
Kamis, D. 1860
Kamo, K. 1997
Kamsilan 5472
Kan, M. 7186
Kanamitsu, K. 4944, 4946
Kananen, A. 7276
Kanazawa, Y. 3407
Kandler, O. 3345
Kane, D. 4763
Kane, M. B. 5519, 5521
Kaneko, S. 1202, 1656, 4917, 4925
Kang, B. T. 6074
Kang, J. Y. 7206
Kangas, E. 7232
Kanninen, K. 6709
Kanninen, M. 692
Kant, S. 5328
Kantarci, M. D. 6173
Kanzaki, K. 6475
Kanzler, E. 2911
Kao, C. 4619, 7074
Kao, P. C. 6546
Kapel'kina, L. P. 4310
Kapoor, L. D. 5678
Kapoor, M. L. 739, 1937
Kapoor, V. P. 5678
Karaban', R. T. 2735, 4686
Karadge, B. A. 3536
Karadžić, D. 2309, 4190
Karailiev, E. 48
Karameris, A. 6196
Karasawa, K. 5977
Karaszewska, M. 5432
Karch, T. 1695
Kardell, L. 2441
Karelse, J. J. H. G. D. 1887
Kärkkäinen, M. 7028
Karkowski, M. 3111
Karlberg, S. 6375
Karlman, M. 1424, 7006
Karner, L. 3465
Karnik, S. L. 2771
Karnosky, D. F. 313, 1516, 2740, 7386
Karns, P. D. 1767
Karolewski, P. 367
Karpisonova, R. A. 4830
Karpov, V. G. 2814
Karr, J. R. 7292
Karschon, R. 2415
Kartashova, N. M. 7315
Kartawinata, K. 943, 1169, 4017, 4128, 5914, 6100
Kasile, J. D. 3320
Kassier, H. W. 614
Kasuga, S. 4711
Katagiri, K. 6185
Katagiri, S. 6859, 6860, 6861, 6862, 6863
Katibah, E. F. 4635
Kató, F. 1482, 5066
Kato, H. 5457
Kato, R. 6705
Kato, T. 6284
Katrushenko, I. V. 2814, 2830, 5308
Katsuno, Y. 3669
Katsuta, M. 4832, 6180
Kaufmann, A. 6234
Kaufmann, M. R. 1452, 4367
Kaufmann, U. 1631, 7086
Kaul, O. N. 1124, 1458, 2043, 2415
Kaule, G. 6095
Kaunisto, S. 2591
Kaupp, W. J. 1238, 1240, 1737, 2356
Kauppi, P. 692
Kaur, A. 1852
Kausch-Blecken von Schmeling, W. 3902
Kavanagh, M. 1854
Kawabata, K. 6212
Kawabe, R. 7043
Kawahara, T. 1997, 2655, 2656
Kawamura, M. 6279
Kawamura, T. 7077
Kawana, A. 110
Kawanishi, M. 5004
Kawanobe, K. 2251, 4832
Kawasaki, K. 7186
Kay, M. K. 1213, 1217, 1219, 1220, 1227, 1234, 1235
Kaya, H. K. 2988
Kazakov, L. A. 4310
Kazakov, V. I. 5642
Kazankin, A. P. 6081
Kazantseva, N. V. 248
Kazeĭ, T. L. 4089
Kazmi, S. M. A. 1433
K"drev, T. 4707
Keane, P. J. 784
Keast, A. 4122
Keast, D. 390
Keat, T. S. 6165
Keay, J. A. 3314
Kechel, H. G. 3469
Keeley, C. A. 923
Keeley, L. L. 5406
Kefeli, V. I. 2160
Kegi, J. D. S. 2043
Keiding, H. 2866
Keimer, W. 3158
Keipi, K. 6441
Keirle, R. M. 4864
Keita, J. D. 6352
Keith, G. C. 4637
Kekerix, L. K. van 2399
Keleberda, T. N. 908, 6840
Keleberda, V. G. 6840
Kelertas, R. A. D. 4349
Kellas, J. D. 6188
Keller, H. A. 3879
Keller, H. J. 1475
Keller, H. M. 3036
Keller, J. 3252, 5653
Keller, K. 936
Keller, T. 258, 2739, 3388, 6882
Keller, Y. 6902
Kelley, W. D. 3488, 6455, 7139
Kelliher, F. M. 652
Kellison, R. C. 187, 3266, 7111
Kellogg, R. M. 2019, 6949
Kellomäki, S. 692, 5708, 6441, 6679
Kelly, C. L. 3569
Kelly, C. W. 832
Kelly, D. C. 2937
Kelly, G. A. 889
Kelly, R. J. 33
Kelsey, R. G. 2626
Kemp, E. M. 6905
Kemp, O. T. 3741
Kemp, R. H. 6228
Kempe, S. 2672
Kempff, J. 3793
Kenady, R. M. 2005, 6431
Kendall, D. M. 4962
Kendysh, A. N. 4597
Kenerley, C. M. 2889
Kenk, G. K. 6470
Kennedy, C. E. 3030
Kennedy, C. E. J. 5383
Kennedy, D. 3475, 6244, 6250
Kennedy, H. E. 5518
Kennedy, J. J. 1908
Kennedy, J. M. 6240
Kenneweg, H. 2729
Kenney, D. S. 5195, 7141
Kenney, P. 1753
Kenny, J. S. 1898
Kenstavichyus, I. 3976
Kent, B. 3320, 6197
Kenward, R. E. 1883, 6062
Keogh, R. M. 6712
Ker, J. W. 6201
Ker, M. F. 2664, 3953, 4590
Kerckhove, G. A. vande 3419
Keresztesi, B. 2622, 3264
Kermani, W. A. 2414
Kerr, C. 5173
Kerruish, C. M. 1053
Kershaw, A. P. 6905
Kerz, R. 5444
Kessel, C. Van 3484
Kessell, S. R. 1544, 4813, 5318, 5440
Kessler, B. L. 1477
Kessler, K. J., Jr. 1188
Ketcheson, D. E. 3993, 5496
Kettela, E. G. 815, 4226
Kettlewood, H. C. 310
Keudell, W. von 6229
Keyes, M. R. 2030, 2038
Keys, M. G. 4531
Khaĭlova, G. F. 2162
Khalaf, K. T. 4957
Khalil, M. A. K. 322, 1600, 1912, 2525, 3191, 3205, 6383
Khalil, M. M. 11
Khamala, C. P. M. 403, 404
Khan, A. H. 5332
Khan, M. H. 5319, 5322
Khan, S. N. 4164, 5951
Khan, V. A. 5827, 6983
Khan, Z. H. 4488
Khanbekov, R. I. 3098, 6751
Khanduja, S. D. 1509
Khanna, P. K. 3731, 3739, 3740
Khara, H. S. 4888
Khare, D. K. 6825
Khare, P. K. 6825
Kharin, N. G. 5070
Kharitonov, G. A. 5058
Kharitonov, V. F. 4438
Khatamian, H. 17, 3200
Khattak, G. M. 1970, 5145, 5482
Khineche, A. 624
Khlebodarov, V. N. 4560
Khokhmut, R. 4213
Khokhrin, A. V. 5929
Kholopova, L. B. 2852
Khorechko, A. G. 1062
Khosla, P. K. 3831, 4104, 5162
Khrustaleva, L. E. 6454
Khurana, D. K. 4104
Khutortsov, I. I. 3823
Ki-Zerbo, J. 5575
Kiang, T. 5554, 6664
Kidd, D. L. 6306
Kidd, N. A. C. 5391
Kidd, W. E. 5194
Kidwai, P. 4091
Kieliszewska-Rokicka, B. 363
Kiesel, K. 426
Kiew, R. 1570, 2794, 7015
Kiffer, E. 2099, 2717
Kiil, A. D. 4754
Kikkawa, J. 1851
Kikukawa, T. 4989
Kikuti, H. 7078, 7101
Kikuzawa, K. 3293, 3294
Kilbertus, G. 2099, 2717
Kile, B. W. 4241
Kile, G. A. 36, 37, 38, 39, 40, 41, 1561, 1632, 2780, 2886, 2888, 4877, 6188
Kilgore, B. M. 3395
Kilian, W. 615, 3074
Killilea, D. M. 2606
Kilpatrick, D. J. 3970
Kilpelä, E. 3325
Kim, C. H. 5424, 5425
Kim, C. S. 7023, 7120
Kim, D. C. 6749
Kim, J. S. 7023
Kim, K. H. 6181
Kim, S. 6665
Kim, T. W. 5262
Kim, Y. S. 6184
Kim, Y. T. 1946
Kim, Z. S. 4841
Kimball, R. A. 2992
Kimber, P. C. 37, 452
Kimmins, J. P. 3742
Kimura, K. 7362
Kimura, M. 6989
Kinashi, K. 3320
Kindschy, R. R. 3092
King, A. 524
King, J. H. 5522
King, J. M. 453
King, J. P. 2867, 3806
King, K. F. S. 478, 2413
King, R. J. 6241
Kingsbury, P. D. 2360, 2361, 2362, 5006
Kingston, D. G. O. 1372, 5255
Kinloch, B. B. 3528, 4171
Kinloch, B. B., Jr. 1609
Kinn, D. N. 831, 840
Kinzey, W. 1260
Kio, P. R. O. 4062
Kirby, C. L. 3988, 3989, 4658, 4660, 4661, 4663, 4756
Kirby, E. G. 7073
Kirby, K. J. 6107
Kirby, M. 861
Kirgizov, N. Ya. 5928
Kirikova, L. A. 592, 5915
Kirk, A. A. 851
Kirkland, A. 6302
Kirkpatrick, L. M. 617
Kiruzawa, K. 275
Kishi, Y. 2966
Kishihara, N. 2382, 2383, 2384, 3667
Kisielowski, S. 3631
Kislova, T. A. 3994
Kislow, C. J. 4267, 4269
Kiss, G. K. 322
Kiss, L. 5972
Kiss, M. 6009
Kitagawa, K. 3982, 6474
Kitahara, E. 6192
Kitazawa, S. 7308, 7309
Kitchen, L. M. 2607
Kjøndal, B. R. 2093
Klapproth, M. C. 4907
Klass, D. L. 5570
Kläy, M. 975
Klebenow, D. A. 2138
Klees, M. 6260
Klein, J. I. 1180
Klein, M. 3891
Klein, P. 5851
Klein, R. 6195
Klein, W. H. 1094, 4944, 6772
Kleinschmidt, S. 1684
Kleinschmit, H. 3684
Kleinschmit, J. 5926, 7103
Klemer, H. 2008
Klemp, C. D. 2632
Klemperer, W. D. 964, 967, 1101, 2071, 3304, 4672, 4674
Klepac, D. 563, 6585
Kliefoth, R. 1631
Kliejunas, J. T. 2280
Klimetzek, D. 426, 2348
Klimkiewicz, M. K. 7037
Klimo, E. 2807, 2838
Klincsek, P. 5796
Kline, L. N. 6022
Kline, V. M. 3431
Kling, G. J. 14
Klinge, H. 943, 2052, 6073
Klingelhöfer, H. 6581
Klinka, K. 1089, 3353, 6834, 7064, 7065
Klocek, A. 4623
Klock, G. O. 4292
Klomp, H. 4943
Klopatek, J. M. 629
Kłoskowska, A. 1382
Klosterman, J. E. 2643
Kluender, R. A. 1438, 1439, 2529, 5199
Kluge, J. P. 1541
Knabe, W. 5788
Knapp, E. 2668, 6744
Knauer, N. 3094
K"nev, D. 4550
Knigge, H. 4895
Knight, F. B. 2604, 4219
Knight, H. A. 4651, 6290, 6291
Knight, I. K. 4761
Knight, J. A. 5572
Knight, P. J. 2726
Knipe, O. D. 724
Knoll, K. H. 6890
Knopp, T. B. 6196

Knops, J. F. 2868
Knorr, G. 5038, 5958
Knothe, J. 946
Knott, F. W. 566
Knowe, S. A. 1072
Knowles, R. L. 6306
Knox, G. W. 16
Knudsen, C. C. 6301
Knudson, D. M. 486
Knutell, H. 599
Knutson, D. M. 2927, 5382
Knyazeva, V. V. 7181
Kobayashi, F. 6185
Kobayashi, H. 5750
Kobayashi, K. 21, 6189
Kobayashi, Y. 6200
Kobzar', V. F. 438
Kocan, T. 2844
Koch, J. 5960
Koch, N. E. 6195
Koch, P. 181, 6473
Koch, W. 5178, 6108
Kocharov, G. E. 7391
Kochummen, K. M. 5679
Kocięcki, S. 987
Koehler, C. S. 2963, 3638
Koehn, R. D. 4843
Koeppel, H. W. 7373
Koeppen, R. C. 6949
Kofman, P. D. 3271
Koh, C. C. 7301
Kohler, S. 4249
Kohlsdorf, E. 1411
Kohlstock, N. 2614, 2615, 2704, 6620
Kohmann, K. 1380
Kohmo, I. 6262
Kohnert, H. 3465
Kohonen, M. 5197
Koike, A. 2732
Koizumi, C. 7226
Kojima, K. 6476
Kojima, S. 2857
Kokaya, N. L. 3925
Kokin, Yu. A. 4345
Kokubo, A. 2949
Kolabinski, V. S. 4666
Kolar, C. A. 7320
Kolari, K. K. 6855
Kolarov, D. 3850
Kolarov, D. D. 364
Kölber, M. 5377
Kolbezen, M. J. 2279
Kolchin, N. V. 6545
Kolesnikov, I. V. 5186
Kolesnikov, Yu. I. 5182
Kolk, A. 1222
Kollar, C. N. 814
Kölling, U. 6283
Kolomiets, N. G. 6023
Kolster, H. W. 74, 6323
Koltunova, A. I. 237
Komarov, A. S. 2828
Komin, G. E. 5886
Komkov, V. V. 5223
Komota, M. 6730
Komshilov, N. F. 3390, 4784
Konareva, V. N. 6889
Konca, B. 1231
Konchira, Y. 3315
Kondo, E. 6185
Kondo, E. S. 4194
Kondrashov, V. T. 4892, 5862
Konev, G. I. 4593
König, E. 1420, 7195
König, H. C. 5810
König, W. 4459
Konishi, J. 1180
Konobeev, V. N. 206
Konohira, Y. 3302, 6779
Konôpka, J. 2833
Koo, Y. B. 6185
Koono, K. 7011
Koop, H. 6104
Kooy, F. 4799
Kopcewicz, J. 5309
Kopinga, J. 1519
Koponen, M. 424, 4951
Koponen, S. 850, 5865, 6045
Kopp, D. 6740
Köpp, H. 2431
Kopp, S. 6553
Koppel', A. 4083
Korchagin, V. N. 800
Korhonen, K. 1632, 5954, 7275
Kormanik, P. P. 752, 1620
Kornienko, P. P. 5642
Korpel', Š. 3054
Korpelainen, K. 6332
Korsch, J. 5032
Kosakoski, G. J. 3666
Kosarev, V. P. 3363
Kosco, B. H. 3007
Koshel'kov, S. P. 5241
Koshiji, M. 1997
Koshijima, T. 2744, 4076
Koske, R. E. 5467
Koski, V. 3815
Koski, W. H. 1535
Kosnikov, B. I. 5602
Kosnikova, R. P. 5602
Kosowan, A. L. 4394
Koss, H. 6623
Kossuth, S. V. 583, 3818, 3830
Kostadinov, K. G. 4550
Kostermans, A. J. G. H. 2174
Kostov, K. D. 4766, 6370
Kostryukov, A. I. 6695
Kotar, J. 3114
Kotimaki, T. 2024
Kotlaba, F. 2878
Kotoba, L. I. 5923
Kotov, M. I. 5923
Kotov, M. M. 5278
Kotwal, P. C. 6151
Kourtz, P. H. 1527, 2753, 6916
Kovács, M. 5796
Koval', I. P. 4384
Kovalev, A. M. 6081
Kovalev, A. P. 2588
Kovalev, P. V. 5061
Kovalicky, T. J. 4341
Kovalovský, D. 6416
Kowalewski, M. 6367
Kowalkowski, A. 663, 1129, 1522
Kowalski, S. 569, 1618
Kowalski, T. 4189
Koyama, H. 6994
Kozak, A. 1157, 1451
Kozhevnikova, N. N. 1562, 5301
Kozin, E. K. 5687
Koziracki, L. A. 3911
Kozlov, A. F. 3770
Kozlowski, T. T. 1959, 3123, 3366, 3367, 3383, 6165
Koz'min, A. V. 4417
Kozobrodov, A. S. 145
Kraayenoord, C. W. S. van 80
Kraemer, M. 4989
Kraemer, M. E. 6025
Krag, R. K. 4018, 6474
Kral, F. 6176, 6177, 6178
Kramer, F. 7387
Kramer, H. 134, 2815, 6591
Kramer, W. 6168, 6169, 6384
Krangauz, R. A. 6454
Kranz, J. J. 1263
Krapfenbauer, A. 1010, 1375, 2725, 3796, 7198
Krasnova, T. S. 4842
Krasnyatov, V. V. 5716
Kratka, S. 3830
Krauklis, A. A. 915
Kraus, J. F. 737, 1197, 5969, 7099
Kraus, W. 3712
Krause, C. R. 5767, 5875
Krause, H. H. 4448
Kraut, K. 6512
Kravchenko, V. I. 146
Krawiarz, K. 360, 362
Krebill, R. 2418
Krebs, C. J. 2377
Krebs, E. 258
Krebs, J. 905
Krechetova, N. V. 1610
Kremer, A. 353
Kremlev, S. M. 2161
Krempl, H. 3464
Krepkiĭ, I. S. 4303
Kreslavskiĭ, A. G. 418, 419
Krest'yashina, L. V. 6111
Kreutzer, K. 5616
Kreutzweiser, D. P. 2360
Kreuzberger, H. 7349
Krider, E. P. 4756
Kriebel, H. B. 303, 1602, 6183
Kriek, W. 2407, 5557
Król, A. 1720
Kronfellner-Kraus, G. 6361
Kropp, B. R. 5943
Kroth, W. 3920, 5760
Krstinić, A. 3265
Krueger, W. C. 3004
Kruger, H. 6417
Krüger, P. 253
Krugman, S. L. 3806
Krügner, T. L. 771
Krumlik, G. J. 2857
Krupinsky, J. M. 2302
Kruse, W. H. 3654
Krushev, L. T. 872, 5000
Kruspe, R. R. 4307
Krutov, V. I. 1654
Krutzsch, P. 1354
Krylov, G. V. 5588
Kryuk, S. I. 3413
Kryukov, V. V. 3811
Krywienczyk, J. 1237
Krzakowa, M. 7089
Krzan, Z. 360, 366
Ku, T. T. 5521, 5522
Kuang, D. 7207
Kubenin, V. V. 3637
Kubíček, F. 2849
Kübler, T. 2911
Kučera, L. 595
Kucharska, K. 3670
Küchler, A. W. 295
Kudashova, F. N. 1562
Kudler, J. 2980, 3642
Kudo, H. 2783
Kudon, L. H. 827, 1714
Kuehner, R. A. 1302
Kuhl, W. E. 1634
Kuhlman, E. 7276
Kuhlman, E. G. 1630, 1651, 2298
Kuhn, H. 912
Kuittinen, R. 3325
Kujala, M. 6251
Kujala, V. 7056, 7057
Kukachka, B. F. 3400, 3401, 3402, 3403, 3404, 3405, 5281, 5282, 5283, 5284, 5285, 5286, 5287, 5288
Kukkola, M. 3218
Kula, E. 5422
Kulagin, Yu. Z. 722
Kuleshis, A. 3976
Kulik, N. F. 4487
Kulikov, A. I. 5957
Kulikovskiĭ, Yu. N. 6005
Kulkarni, D. H. 3786
Kulkarni, H. D. 2173, 3477, 4152
Kulkarni, S. 2307, 2879
Kulkarni, Y. S. 3550
Kulman, H. M. 4987, 4988
Kulongowski, B. 3658
Kumagai, N. 7300
Kumar, J. 765
Kumar, K. 6186
Kumar, S. U. 7211
Kumaravelu, G. 1184
Kumazaki, M. 6284
Kümmerle, G. 2443
Kung, F. H. 3320, 5655, 5937
Kung, F. S. 6965, 6987
Kunicki-Goldfinger, W. J. H. 359
Kunkel, G. 3109
Kunkle, S. H. 6074
Kuno, E. 6189
Kunstadter, P. 1851
Kuntz, J. E. 5344
Kuo, S. C. 2272
Kupicha, F. K. 7020
Kuraev, V. N. 3849
Kurahashi, A. 6182
Kuranaga, Z. 4994
Kurimura, T. 6803
Kurkela, T. 361, 3043, 3534, 4180
Kuroda, H. 5302
Kurokawa, Y. 6213
Kurozumi, S. 7250
Kürschner, K. 6624
Kurt, A. 46
Kurth, H. 5742
Kurtz, W. B. 56, 149, 240, 3181
Kurvits, P. T. 3913
Kusch, D. S. 2366, 2995
Kuser, J. E. 1921
Kushalappa, K. A. 3551
Kushler, M. G. 1308
Kushmaul, R. J. 1721
Kutáček, M. 2160
Kuthubutheen, A. J. 2872
Kuuluvainen, J. 6254
Kuusela, K. 5578, 6254, 6263, 6265
Kuzmanova, Ĭ. 2986
Kuznetsov, A. P. 5054
Kvamme, T. 839
Kwain, M. J. 4264
Kwolek, W. F. 7069
Kwon, K. W. 7023
Kydar, M. M. 2118
La, Y. J. 6186
Laar, A. van 5229
Laban, P. 3067, 3077, 3078, 3082
LaBau, V. J. 1866, 3315, 3917
Łabędzki, A. 2683
Lacaze, J. F. 987, 5134
Lachance, D. 549
Lachowski, H. M. 2686
Lackner, A. L. 5967
Lackner, H. 3161
Ladd, T. L., Jr. 3712
Ladiges, P. Y. 6850, 6851
Laemmlen, F. F. 779, 3527
LaFayette, R. A. 182
Laffan, M. D. 6835
Laffers, A. 6175
Laflamme, G. J. 2330, 3593
Lafleur, L. 2561
Laford, A. 43
Laguë, R. 7245
Lähde, E. 5641, 6820
Lahiri, A. K. 2547
Laidly, P. R. 2742, 2743, 6720
Laiho, O. 6441
Laine, K. J. 813
Laine, L. 6254
Laitinen, J. 143, 3903
Lakhani, K. H. 1879
Lal, R. 6072, 6074
Lall, D. 1446, 6980
Lallemand, P. 5661
Lama G., G. de la 3261
LaMarche, V. C., Jr. 1312
Lamb, D. 1851, 3735
Lamb, R. C. 5919
Lamb, S. H. 5876
Lambe, R. C. 764
Lambert, M. J. 3496, 3535, 3721, 3742
Lambert, R. L. 5242
Lambour, V. W. 3444
Lamont, B. B. 934
Lamontagne, Y. 352, 1180
Lamprey, H. F. 943
Lance, D. 2325
Land, S. B., Jr. 1614
Landers, J. L. 6061
Landis, T. D. 2561
Landsberg, J. 6203
Landsberg, J. J. 5709
Landwehr, V. R. 3623, 3638
Lane, C. H. 322
Lane, P. B. 2609
Lane, R. W. 5197
Lang, E. 6581
Lang, G. E. 3429, 4808, 5242
Lang, H. P. 6511
Lang, K. 3255, 3256
Lang, K. J. 780, 4891, 5847
Langdon, G. O. 5662
Langdon, K. E. 6878
Langdon, O. G. 3444, 4049, 5521
Lange, O. L. 4791
Lange, P. W. 5645
Lange, R. T. 7035

Langeneck, H. 3343
Langerijt, J. C. A. M. van de 5688
Langhammer, Å. 2259
Langkamp, P. J. 6852, 6853
Langley, P. A. 37, 4319
Langley, P. G. 1866, 3314
Langlo, K. 4726
Långström, B. 1682, 4247
Lanier, L. 6472
Lankford, L. A., Jr. 1389
Lanly, J. P. 2488, 3165, 3167, 4636, 5230, 5536
Lanner, R. M. 4810
Lantican, D. M. 3779, 3780, 3781, 3782
Lantz, C. W. 194
Lanzová, J. 1666
Lapietra, G. 5749, 6043
Lapitan, R. 1855
Lapteva, R. N. 6817
Lara L., L. 3580
Larin, G. I. 5182
Larionov, G. V. 4225
Larkin, J. M. 5525
Larrère, R. 5539
Larsen, A. O. 1837, 2292, 7151
Larsen, J. B. 250, 5858, 6174, 6389, 6390, 7097
Larsen, M. J. 1495, 1496, 2261, 4693, 4694, 6864
Larsen, M. L. 4762
Larson, C. C. 6160
Larson, F. R. 677, 4579
Larson, G. L. 7367
Larson, K. N. 3076
Larson, P. R. 225, 6956
Larsson, H. C. 1347
Larsson, M. 6640
Larsson, S. 697, 2205, 2214, 2215
Larsson, S. G. 3781
Larsson, T. B. 7262
Larue, P. 1710
Lasheen, A. M. 4
Lasher, D. N. 184
Lashomb, J. H. 1752, 3648, 5522
Lasser, T. 1567, 4106
Lassiter, C. J. 7302
Lassoie, J. P. 633, 2720, 4005
Last, F. T. 1876, 3769, 4153, 4847
Latan, J. E. 5279
Latch, B. J. 394, 1198
Latham, D. J. 2132, 4738
Latham, R. P. 5756
Latter, M. 4729
Latteur, G. 174
Lauby, A. 1846
Lauly, K. S. 6271
Laundrie, J. F. 941, 5098
Laupert, R. E. 4480
Laut, J. 1671
Laut, J. G. 1206
Lauterwasser, E. 5068
Lavallée, A. 7341
Lavault, M. 5299
Lavdas, L. G. 1141
Laven, R. D. 7033
Lavender, D. P. 696, 3122, 3762
Lavieren, B. van 3781
Lavigne, M. B. 3954
Laviola, C. 2904
Lavkulich, L. M. 3358
Lavsund, S. 6367
Lawalrée, A. 2798
Lawrence, G. R. 3979
Lawrence, P. R. 3320
Lawson, T. L. 6074
Lawton, R. M. 3068, 7336
Lawyer, J. N. 5195, 5197
Laycock, W. A. 5021
Layman, H. F. 1230
Layser, E. F. 3030, 5902
Layton, C. 1945
Lazarev, M. M. 6091
Lazarev, V. 1628, 2919, 4184
Lazarev, Yu. A. 6751
Lazareva, I. L. 4497
Lazda, È. È. 279
Lea, J. 3507
Leadem, C. L. 5144
Leaf, A. L. 1083
Leak, W. B. 2050, 6724
Leakey, R. R. B. 1882, 3825
Learmonth, J. H. 1804
Leary, G. J. 6305
Leary, R. 6201
Leary, R. A. 6200
Leatherdale, D. 6199
Leatherman, D. A. 792
Lebedev, A. V. 4346
Lebedev, V. E. 6696
Lebedeva, O. I. 6975
Leben, C. 5527, 6183
LeBlanc, G. 4142
Leboeuf, M. 3415, 5300
Lebrun, P. 5001
Leckenby, D. A. 2370, 6057
Leclercq, A. 669, 2745, 6941
Leclercq, P. J. 3147
Ledig, F. T. 1608, 2507, 5330, 5927, 6993
LeDoux, C. B. 3892, 5649
Lee, B. Y. 7206
Lee, C. H. 306
Lee, C. W. 10
Lee, C. Y. 4037
Lee, H. R. 5414, 5415
Lee, H. S. 126, 6487
Lee, I. S. 3359
Lee, K. E. 3719, 3740
Lee, K. J. 6180, 6184
Lee, M. A. B. 2933
Lee, R. B. 6201
Lee, S. K. 7023, 7120
Lee, S. S. 1851
Lee, T. H. 1494
Lee, T. S. 6451
Lee, Y. J. 3979, 4663, 6167
Leech, J. W. 2665
Leech, R. H. 1946
Leek, N. A. 2595, 4352, 6164
Leer, E. 5197
Lees, J. C. 2628, 4489, 6221, 6500
Legault, F. 6100
Leggett, P. 6127
Legroux, P. 6160
Legueut, C. 5300
Leguízamo, A. 468
Lehela, A. 5509
Lehmann, L. 2705, 4700
Lehn, G. A. 5702
Lehnhausen, H. 6218
Lehtonen, J. 6007
Leibundgut, H. 653, 1993, 2290, 3854, 6358
Leigh, E. G., Jr. 1252
Leigh, J. H. 6909
Leikola, M. 6369
Leimgruber, W. 7162
Leinert, S. 6646
Leisz, D. R. 2413
Leitzinger, J. 6160
Lekeux, L. 265
Lembcke, G. 2668, 6740, 6744
Lemée, G. 2103
Lemke, J. 3289
Lemoine-Sebastian, C. 1164
Lemon, D. J. 5510
Lenger, A. 1995
Lengkeek, V. 5361
Lenhart, D. J. 2121
Lennartz, M. R. 3309
Leonard, D. E. 814
Léonard, J. P. 5661
Leone, I. A. 907, 4019
Leone, M. 6087
Leone, V. 5911, 5912, 7046
Leopold, D. J. 928
Lepekhin, A. V. 4545
Lépine, M. 7281
Lepoutre, B. 236, 1364
Leppard, W. I. 1640
Leppert, P. M. 3740, 3741
Lescure, J. P. 3443
Leslie, A. J. 942
Leslie, R. 444
Leśniak, A. 1222, 2827
Lessel, A. 3048
Lestander, T. A. 341
Lestard, J. P. G. de 4755
Lester, D. T. 309
Létourneau, L. 3313
Leube, F. 2557
Leuschner, W. A. 824, 847, 3300, 4944
Levack, H. H. 6307
Levanto, S. 6639
Levdikov, B. I. 5784
Levenson, J. B. 7037
Leverenz, J. W. 699, 700, 701
Levin, È. D. 4082, 4785, 4786, 4790, 5829
Levin, G. M. 4112
Levina, V. È. 4785
Levula, T. 107, 108
Lewark, S. 4839, 7079
Lewis, A. R. 5027
Lewis, B. J. 56
Lewis, C. E. 1369, 1866, 2998, 2999, 3000, 4056, 5020, 5024
Lewis, D. H. 751
Lewis, F. B. 862, 1241
Lewis, J. R. 5412
Lewis, N. B. 3320
Lewis, R., Jr. 773, 5353
Ley, C. 507
Leyhe, W. 6257
Li, C. 4926
Li, C. H. 2098
Li, C. Y. 1205, 2005, 2924, 4196, 4875
Li, D. Q. 7328
Li, G. Y. 6667
Li, H. B. 6376
Li, L. Y. 868
Li Wen Hua 5320
Li, Y. G. 2936
Li, Y. J. 6012
Li, Y. W. 2936
Liang, Y. 3259
Liang, Y. M. 7328
Liao, J. C. 7029
Libby, W. J. 496, 1607
Lidén, E. 45
Liebeneiner, E. 4732
Lieberman, D. 3420
Lieberman, M. 3420
Liebig, G. 6666
Liese, W. 2521, 2896, 4356, 4359, 4360, 4895
Lieskovsky, R. 4039
Lieu, Y. C. 6160
Lieutier, F. 2342
Liew, K. S. 1494
Liivamae, M. 7341
Likens, G. E. 3675
Liles, F. T., Jr. 7223
Lilja, S. 6254
Lillesaeter, O. 6775
Lillesand, T. M. 2687, 2688, 4657
Lilliehöök, L. 6514
Lim, J. B. 7206
Lima e Borges, E. E. de 553
Limbird, A. 2096
Lin, D. C. 1631
Lin, J. H. 6012
Lin, P. C. S. 6160
Lin, S. C. 5683
Lin, T. P. 6965
Lin, T. S. 6606
Lin, W. C. 5554, 6664
Lin, W. L. 5684
Lin, X. F. 7121
Lin, Y. L. 7301
Lind, P. R. 38
Lindahl, K. Q., Jr. 428, 829
Lindberg, T. 2219
Lindeberg, G. 6181
Lindell, M. 6514
Linder, S. 694, 702, 2204, 2205, 2216, 5298, 5305, 5705, 5713, 6180
Lindgren, Å. 2198, 2199
Lindgren, B. S. 4202
Lindgren, D. 329, 347, 1604
Lindgren, O. 3874
Lindquist, C. H. 991, 1013
Lindquist, J. L. 3860
Lindquist, O. H. 795, 4203
Lindroth, A. 2198
Lindsay, J. M. 6247
Lindström, A. 3848, 6206, 6528
Lindström, K. G. 6328
Lineberger, R. D. 25
Lines, R. 6242
Ling, C. W. 2401
Linhart, U. B. 567
Linhart, Y. B. 7102
Linit, M. 2978, 6185, 6188
Link, L. E. 1097
Link, W. 6345
Linkins, A. E. 4850
Linnard, W. 6248
Linton, D. A. 843, 5408, 6018
Lints, F. A. 2863
Liogier, A. H. 4800
Lipas, E. 107, 108
Lipphardt, M. 1420
Lipscomb, D. J. 891
Liquido, N. J. 3712
Lishenko, A. A. 6846
Liss, O. L. 3672
List, G. A. 6305
Liston, A. D. 4990
Liston, R. L. 6771
Littke, W. R. 759
Little, D. L. 5093
Little, S. 923
Litton, R. B., Jr 4348
Liu, C. J. 6197
Liu, M. N. 6209
Liu, N. Y. 3200
Liu, S. C. 5655, 6160, 6732, 6733, 6734
Liu, Y. 5398
Liu, Y. C. 5398
Liu, Y. H. 547
Liu Zheng Nan 4861
Livingston, R. L. 3610, 6032
Livingston, W. H. 5968
Ljuljka, B. 6202
Lloyd, C. R. 5459
Lloyd, F. T. 1024, 5519, 5727
Lloyd-Smith, J. 6499
Lo, S. L. 2249
Locht, L. J. 2436
Lock, W. 1627
Löckener, B. 2084
Lockow, K. W. 2614, 2704, 6620, 6672
Loewenstein, H. 4308, 6717
Löffler, H. 3080, 3904, 6345, 6475, 6833
Loftis, D. L. 6522
Logan, J. A. 844
Logan, K. T. 320, 3822
Logan, P. A. 1266
Logan, T. L. 3335, 3336, 3979
Logvinov, I. V. 6288
Loh, I. C. 1267
Lohammar, T. 2197, 2205, 5713
Lohan, O. P. 1446, 6980
Lohbeck, H. 2533, 3888
Lohm, U. 2218, 2224
Loján, L. 467
Lomakin, M. D. 2315
Lombar, F. F. 7158
Lombard, A. 207
Loneragan, O. W. 5071
Long, A. J. 3133
Long, D. G. 7025, 7026
Long, E. M. 322
Long, G. E. 3572
Long, J. N. 2152, 3114
Long, P. 6250
Longman, K. A. 222, 224, 1882, 3825, 6181
Longo, B. N. 3520
Longo, N. 3520
Longo, R. 5837
Lönnstedt, L. 2074
Lonsdale, D. 1649
Look, M. 3629
Loomis, R. J. 2738
Loomis, R. M. 1141, 1142, 4049, 6915
Loomis, S. R. 4677
Lopatina, N. V. 2315
Loper, B. R. 6069
López Fernández, A. 873
Lopushanski, S. M. 3646
Lopushinsky, W. 4292

Loquay, A. 5106
Lorenz, E. 1009
Lorenzini, G. 2913
Lorimer, C. G. 2243, 4567
Lorio, P. L., Jr. 7225
Lorrain-Smith, R. 2503, 6802
Lory, F. 1094
Loschky, W. 2077
Loskutov, S. R. 4790
Lotan, J. E. 4049, 4050, 4051, 4052, 4053, 4054, 5800
Lothian, T. R. N. 87
Lothner, D. C. 5534, 5581
Lott, J. R. 5195
Loucks, O. 3425
Loucks, O. L. 885, 3425
Louden, L. 5582
Loughlan, R. B. 5493
Louis, C. 3012
Loureiro, A. M. 3265
Love, R. 5558
Lovejoy, T. E. 7037
Lovell, B. 6056
Lovett, W. R. 315
Low, C. B. 735
Low, C. K. 2774
Lowe, C. H. 1247, 2240
Lowe, J. J. 4662, 4664
Lowe, L. E. 3353, 6834, 7065
Lowe, P. O. 881
Lowe, S. B. 456
Löwenstein, L. zu, Erbprinz 6210
Lowerts, G. A. 7111
Lowery, R. F. 5518
Loyd, G. N. 5201
Loyn, R. H. 38
Löyttyniemi, K. 431, 1718, 4200, 6621, 7201
Lozano-Calle, J. M. 2718
Lozano, F. C. 4712
Lozzia, G. C. 3633
Lu, C. H. 547
Lu, C. M. 2249
Luca, P. De 2790
Lucarelli, B. 527
Lucas, G. 3458, 4615
Lucas, G. L. 1297
Lucas, J. 5138
Lucas, R. C. 1301, 3095, 3102, 4338, 4341
Lucht, D. D. 1717
Lucich, G. C. 5016
Lucier, A. A. 6999
Luck, R. F. 412, 6001
Lucke, E. 5159
Ludwig, H. A. 1887
Ludwig, J. A. 5901
Lugmayr, J. 1995
Lugo, A. E. 943, 1107, 3443
Lui, P. 5839
Luis, E. 2859
Luisi, N. 2904
Luke, A. G. R. 6244
Luke, R. H. 2750
Lukin, N. F. 5180
Lukito Daryadi 4337
Lulandala, L. L. L. 1377
Luman, I. D. 6055
Lumis, G. P. 17, 118
Lumley, P. 4355
Lun, W. C. 950
Lund, H. G. 1866, 3275, 3279, 3309, 3971, 3975, 4624
Lund-Høie, K. 6563
Lundberg, J. 3215
Lundeberg, G. 6181
Lunderstädt, J. 399, 1727, 2931, 5926, 7103
Lundgren, A. L. 4603, 5732, 6799
Lundgren, B. 3079
Lundgren, L. 6074
Lundh, J. E. 7006
Lundholm, B. 871
Lundin, L. 5264
Lundkvist, H. 2224, 2226
Lundkvist, K. 343, 7091
Lundquist, J. E. 5356
Lunenkov, A. V. 6442
Lung-Escarmant, B. 364
Lunnan, A. 2074
Luo, Y. F. 6950
Luo, Z. C. 998
Lüpke, B. von 6465, 6592
Lush, A. 3320
Lusigi, W. J. 943, 1824
Lussier, L. J. 55
Lust, N. 2444
Luthardt, W. 2476
Lüttich, R. 3969
Luttrell, E. S. 5356
Lutyk, P. 4862
Lützke, R. 3033, 3216
Luvall, J. C. 4702
Luxmoore, R. J. 2109, 4701
Luxton, M. 2101
Luzanov, V. G. 3883, 4534
Lyameborshaĭ, S. Kh. 5548
Lyamtsev, N. I. 4964, 4977
Lyle, G. R. 5167
Lynch, J. F. 7037
Lynch, T. J. 6588
Lynn, T. E., Jr. 5028
Lyon, L. J. 4055, 4277
Lyon, N. F. 5179, 6407
Lyon, R. L. 2368
Lyon, W. N. 1531
Lyons, A. 5520
Lyons, G. 79
Lysenko, O. 3642
Lysholm, G. 2565, 2566, 2567, 2578, 2579, 2580
Lyubarskaya, T. G. 5301
Lyubchenko, V. M. 4007
Lyubich, E. S. 4424
Ma, D. C. 6423
Ma, G. H. 7121
Ma, S. J. 868
Ma, Y. L. 1854
Maaren, A. van 3078
Maars, D. 141
McAleese, D. M. 656, 657
McArdle, A. J. 6118, 6119
McArthur, A. G. 2750
McArthur, E. D. 2176, 7003
McAvoy, L. H. 487
McBeath, J. H. 2915
McBrayer, J. F. 1117
MacBrayne, C. G. 73, 2909, 7350
McCall, K. 4866
McCambridge, W. F. 2339, 2341, 5431
MacCarter, L. E. 577
McCarthy, J. 6768
McCavish, W. J. 1378
McClain, K. M. 1376, 4510, 5493, 5494, 6467
McClelland, B. R. 5800
McClenahen, J. R. 664
McClintock, D. 1152, 6936
McClure, J. P. 3309, 3444, 4651
McClure, M. S. 5989
McConathy, R. K. 4713
McConchie, D. L. 3837
MacConnachie, W. D. 1988
McCorison, F. M. 2391
McCormack, D. E. 3076
McCormack, G. A. 5493
McCormack, M. L. 1992
McCormick, J. F. 2856
McCowan, D. 7271
McCown, B. H. 26, 29
McCracken, F. I. 186, 1614
McCracken, I. J. 2701
McCready, C. C. 1624
McCreight, R. W. 4744
McCue, K. F. 5292
McCulloch, C. Y. 1247
McCulloch, S. 29
McCulloch, S. M. 29
McCullough, K. 4709
McCutchan, B. G. 1607
McDaniel, K. C. 5026
McDavitt, J. G. 3214
McDonald, C. S. 519, 4755
McDonald, D. P. 1759
McDonald, G. I. 1195, 1200, 2905, 4168, 4170, 4969
McDonald, I. R. C. 6305
Macdonald, J. 7382
MacDonald, J. D. 2283
McDonald, P. M. 5597
McDonald, R. J. 5277
McDonald, S. E. 1384, 2561
MacDonald, W. L. 4897
McDonnell, J. P. 3317
McDonough, W. T. 2543
Mace, A. C., Jr. 959
Mace, T. H. 5231
Maček, J. 7171
McElroy, C. 6244
McElroy, G. 75
MacEwen, A. 3097
McEwen, L. C. 6046
MacEwen, M. 3097
McEwen, S. E. 276
McFarlane, I. 2505
McFarlane, J. W. 1755
McGarity, R. 195, 3265
McGaughey, S. E. 3304
McGee, C. E. 119, 5517
McGinnes, E. A., Jr. 1635, 5955
McGinnies, W. G. 525
McGinty, D. 1586
McGlothlin, J. W. 4634
McGregor, M. D. 2114, 2349, 3571, 4249, 4250, 4251, 4274, 6032
McInnes, R. S. 39
McIntosh, J. A. 516
McIntosh, P. D. 1115
McIntosh, R. 3812, 5612
McIntosh, R. P. 3425
Mack, R. J. 5227
MacKay, A. W. 5153
Mackay, S. M. 38
McKee, A. 3091, 5327
McKee, W. A. 4134
McKee, W. H. 5521
McKeen, C. D. 7145
McKelvey, P. J. 6303
McKenzie, D. W. 5199
MacKenzie, M. 2276
McKetta, C. W. 910, 911, 1466
McKinnel, F. H. 1801
Mackintosh, E. E. 4343
Macklin, W. D. 2769
McKnight, J. S. 3444
McKnight, M. E. 2929, 4219
McKyes, E. 5196
McLaughlin, C. W. 3320
McLaughlin, K. R. 3998
McLaughlin, S. B. 4713, 5516
McLean, A. 1762, 1763
McLean, C. 3314
MacLean, C. D. 2685, 3229, 3311, 3977, 4629, 5225
MacLean, D. A. 1705, 4218, 5998
McLean, I. 6303
McLean, J. A. 1476, 6191
MacLean, K. S. 662, 4706
McLeese, D. W. 5790
McLemore, B. F. 5524
McLemore, C. E. 1786
McLeod, A. J. 3244
McLeod, B. B. 2362
MacLeod, D. A. 3314, 3646
MacLeod, D. M. 5988
McLeod, J. M. 4945, 5385, 7245
McLeod, N. C. 6304
McLeod, P. J. 1245
McMahon, C. K. 5276
MacMahon, J. A. 1585, 3428
McManus, M. L. 862, 3561, 5996
McMillan, J. H. 4336
McMillin, C. W. 6939
McMinn, J. W. 140, 1977
McMinn, R. G. 3234, 5198
McMullen, L. H. 842, 2355
McMurphy, W. E. 3006
McMurtray, M. 4579
McMurtrie, R. E. 3740
McNab, W. H. 600, 4058, 5522, 5743
McNabb, D. H. 1315
McNally, A. 3706
McNally, S. F. 2270
McNamara, E. F. 1138
McNamee, P. J. 5385
McNeely, J. A. 1853
McNeice, W. S. 1427
McNeill, L. 2606
McNicol, J. G. 5503
Macphail, M. K. 1172, 2804
McPhee, H. G. 3869, 3909
McPhee, J. R. 1240, 2356
McPheeters, K. 24
MacPherson, A. C. 517
Macpherson, D. K. 255
McPherson, J. A. 6412
McPherson, J. K. 3437
McQueen, I. P. M. 1803
McQueen, J. 1527
McRae, D. J. 4040, 4041, 6918
McRae, S. G. 7330
McTaggart, R. M. 1817
MacTavish, D. 4270
MacVean, C. M. 3624
McWhorter, D. B. 1498
Madden, J. L. 2971, 6027
Mader, D. L. 5769
Madgwick, H. A. I. 2046, 3317, 3740, 6710
Madigan, G. 974
Madrid, F. J. 2358, 3600, 3605, 4210
Madrigal C., A. 3579
Maeda, M. 4281
Maessen, L. 2022
Maessen, P. P. T. M. 6669
Maeta, T. 6182
Magasi, L. P. 794, 4905, 4971, 5970
Maghembe, J. A. 1377
Magini, E. 3202, 5980
Magnani, G. 363, 367, 2881, 2894
Magnusson, C. 2213
Magold, B. 6234
Mahamat Paba Sale 5115
Mahendrappa, M. K. 1372, 1485, 5255, 6857
Mahgoub, S. 5872
Mahlberg, F. C. 3780, 3783
Mahlstede, J. P. 12
Mahmond, A. 988
Maĭ, V. V. 6997
Maier, C. T. 4246
Maĭkovskiĭ, I. A. 6651
Mailu, A. M. 403, 404
Main, W. A. 1138, 4034
Maine, J. D. 824
Mainquist, L. 650
Maisey, G. 1817
Maitre, D. C. le 6992
Majcen, Z. 6675, 6676, 6677
Majer, A. 5626
Mäkelä, J. 5761, 7352
Makhmet, B. M. 586
Mäkinen, Y. 5877
Makkar, H. P. S. 1446
Mąkosa, K. 1114
Maksimchuk, P. L. 4560
Maksimović, M. 828, 1216, 5419
Maksymov, J. K. 799, 4943
Makunina, A. A. 3672
Makwana, S. C. 4285
Malajczuk, M. 7134
Malajczuk, N. 3502, 5949
Malan, F. S. 580
Malaysia, Forest Research Institute, Kepong 6321
Malazgirt, O. 1746
Malcolm, D. C. 3069, 6238, 6359
Maleike, R. 15
Málek, J. 5845
Maleshwari, S. C. 6428
Malhotra, C. L. 4563
Malhotra, S. S. 4710
Malkina, I. S. 4095
Mälkönen, E. 6254, 6441
Malley, D. F. 2110
Malloy, M. D. 6306
Malmquist, A. 3315
Malsburg, I. E. von der 7277
Maltais, P. P. 433
Malvos, C. 6438
Malykhin, V. L. 5600
Malysheva, T. V. 2247
Malyuga, Yu. E. 6442
Mamaev, B. M. 2352

Mamiya, Y. 4996, 6185
Manakov, V. A. 4560
Manandhar, P. K. 479
Mancini, G. 5417
Mancke, R. 3444
Manders, R. 2500
Mandev, A. 5044
Mandouri, T. 1364
Mandoux, E. 2492
Manfredini, R. 783
Mangeney, P. 3415
Mangenot, F. 641, 2710, 2717
Manggil, P. 3826
Manino, A. 207
Manion, P. D. 316, 364, 706, 1186, 2687, 2895, 3702
Mańka, K. 1632
Man'ko, Yu. I. 6373
Mann, H. J. 2697
Mann, L. K. 1865, 3190, 4713
Mann, S. 4888
Mann, W. F., Jr. 3553
Mannan, R. W. 4283
Manners, G. D. 7253
Manning, E. W. 4314, 4315
Manning, G. H. 4365, 4671
Manning, T. W. 4365
Manokaran, N. 1779, 1780, 2012, 5680, 5681, 6663
Manolacu Gregori, M. 493
Mañon-Garibay, A. C. 2414
Mansbach, A. 3303
Mansfield, C. F. 4530
Mantau, U. 4386, 4387
Mantel, W. 1481, 6132, 6792
Mantilla, P. 6160
Manwiller, F. G. 6939
Mapes, M. O. 6420
Marais, J. P. 5167
Maramorosch, K. 4148, 5378
Maranitsch, G. 1333
Marano, M. S. 3315
Marasas, W. F. O. 1638
Marchenko, Ya. I. 5000, 6037
Marchetti, L. 4936
Marcin, T. C. 1866
Marcondes, M. A. P. 6196
Marczak, M. 3375
Maréchal, J. 5815, 6555, 6556, 6558, 6561
Margara, J. 98
Margaris, N. S. 3188, 3801
Mariaux, A. 223, 224
Marien, J. N. 82, 3261
Marinelli, A. 5624, 6486, 7175
Marinković, P. 363, 1630, 4181
Marinov, M. D. 4555
Marion, J. E. 2394
Marion, W. R. 5526
Markalas, S. 4256
Markham, B. J. 1527
Marklund, L. G. 6350
Markov, V. A. 408
Marks, G. C. 37, 3503, 4923
Markusson, K. 6199
Marletto, F. 207
Marlin, C. B. 3773
Marling, D. 1311
Maronek, D. M. 5, 35, 758
Marpeau, A. 7094
Marques, C. P. 3265
Marques, M. do C. M. 2178
Marquis, D. A. 127
Marrs, R. H. 904
Marsden, M. A. 6022
Marsh, C. 1262
Marsh, C. W. 6932
Marsh, E. 3030
Marshall, I. B. 4306, 7329
Marshall, P. E. 3384
Martell, A. M. 6393
Marten, N. 504
Martensz, P. N. 2973
Marthaler, H. 5248
Marticorena, C. 4851
Martin, B. 1633
Martin, C. 5661
Martin, C. W. 3673
Martin, G. L. 4652, 4654
Martin, G. P. 6032
Martin, J. 5661
Martin, J. D. 7289
Martin, M. H. 5261
Martin, M. P. 2294
Martin, N. E. 2300
Martin, R. E. 2370, 4031, 4058
Martin, S. B. 6067
Martin, W. C. 5599
Martinez, A. T. 641
Martinez, M. 1710
Martino, A. de 4872
Martins Mourão, J. A. 3262
Martins, P. J. 1431
Martinson, O. 7006
Marty, R. J. 5801
Martyn, M. G. 5167
Marx, D. H. 375, 1189, 1621, 2263, 2561, 5195, 5971, 7135, 7136, 7137, 7138, 7141, 7321, 7324
Mar'yan, I. I. 4490
Masawe, W. A. 6634
Mascarenhas, O. A. 5469
Maschning, E. 4891
Maser, C. 369, 2370, 3092, 5327, 6052, 6054, 6055, 6056
Maslov, V. N. 3281
Mason, C. J. 3561
Mason, E. 3225, 6811
Mason, G. N. 4661, 7225
Mason, P. A. 1880, 4153, 4847
Mason, R. R. 1683, 2939, 3611, 3612
Massari, G. 5637
Masser, C. 6051
Massey, C. L. 1717
Massey, J. G. 490, 922, 1902
Massie, M. R. C. 4671
Massman, W. J. 5695
Master, D. C. le 5097
Masuda, H. 5762
Masutani, T. 2646
Mate, B. R. 6051
Matérn, B. 4653
Materna, J. 2836, 6187
Mather, P. M. 6247
Matheson, A. C. 740, 2532
Mathew, G. 2938
Mathias, J. A. 2120
Mathiasen, R. L. 3554
Mathieu, L. 3707
Mathur, H. N. 1778, 5466, 6047
Mati, A. 161
Matiece, A. P. 5507
Matis, D. S. 659
Matney, T. G. 3319, 4612, 4631, 4632, 6690
Matovič, A. 6940
Matroyannakis, H. 6167
Matschke, C. 2564
Matschke, J. 2554, 2564, 2785, 2862, 6232
Matson, P. A. 4015
Matsui, M. 949, 6137, 6165
Matsumoto, T. 4774
Matsumura, F. 1724, 4989, 6025
Matsuura, K. 6193
Matsuura, T. 6184
Matsuzaki, T. 2067, 2690
Matt, R. L. 1362
Mattes, H. 4403
Mattes, H. E. 7305
Matthews, F. R. 732
Matthews, J. D. 73, 5132, 6228, 6250
Matthews, R. G. 3130
Matthiae, P. E. 7037
Mattice, C. R. 1413, 3869, 6507
Mattila, E. 3663, 6251
Mattis, G. Ya. 4423
Mattos Filho, A. de 1548, 1554, 1555, 1589
Mattson-Djos, E. 2206, 2215
Mattson, W. J., Jr. 2374
Mattsson, L. 1323, 1324, 1325, 1326, 1327
Matuda, M. 2083
Matveev, P. N. 7294
Matye, R. F. 2561
Matyushenko, A. N. 4120
Mätzkow, H. 2613
Matzner, E. 2113
Mauer, O. 2825
Maugé, J. P. 5661
Maurer, E. 6234, 6614
Maurer, R. 3690
Maury-Lechon, G. 3817, 5148
Mavrommatis, G. 6365
Maw, B. W. 5197
Mawson, J. C. 5227, 6682, 6742
Max, T. A. 2060, 3310
Maxwell, A. H. 3653
Maxwell, W. G. 2679, 2680, 2681
May, J. T. 2400
May, R. M. 7037
Mayatskiĭ, I. N. 6086
Maycock, P. F. 4807
Maydell, H. J. von 479, 7338
Mayer, H. 1419, 2764, 3027, 3053, 3696, 4289, 5532, 6168, 6176, 6231, 6361
Mayer, K. E. 2684, 3331
Mayer, R. 2124, 2840
Maynard, C. A. 6377
Mayne, L. S. 3106
Mayo, K. K. 243
Mayr, R. 3161
Mazanec, Z. 416, 2951
Mazzone, H. M. 5420
Mead, D. A. 971, 1081, 6477
Mead, R. A. 1099, 3327, 5520
Meades, J. P. 2330
Meakin, A. R. 1985
Mebs, T. 1249
Mech, L. D. 1258, 1767
Medema, E. L. 910, 1466
Medin, D. E. 5013, 5022
Medina, E. 943
Mednik, I. G. 2735
Medvedeva, S. A. 2773
Medvick, C. 7316
Meehan, W. R. 3030, 6063
Meeks, G., Jr. 3778
Meer, F. A. van der 7192
Meeres, L. S. 1266
Mees, R. M. 1528, 1529
Meeuwig, R. O. 1473, 2035, 2036, 2037, 2370, 2654, 3001, 3320, 3922, 3933
Megahan, W. F. 5053
Meganck, R. A. 3760
Mehl, M. S. 844
Mehra, B. P. 588
Mehrotra, M. D. 4929
Mehta, P. M. 6429
Meiden, H. A. van der 74
Meier, R. L. 527
Meiners, S. 6079
Meis, S. 4365
Meisner, D. E. 2688, 4657
Meisner, J. 3712
Meixner, J. 5206
Mejnartowicz, L. 355
Melançon, M. 4138
Melchior, G. H. 6426
Melchior, G. L. 4901
Meldahl, R. 1072
Meldahl, R. S. 5722
Melillo, J. M. 1506, 4609
Mellanby, K. 3664
Mellenbergh, T. 1887
Meloun, K. 6079
Melzer, E. W. 1365, 5159
Memmer, P. 141
Menard, D. 6795
Ménard, M. 6675, 6676, 6677
Menaut, J. C. 3439
Mende, C. 4312
Mendel, J. J. 1100
Ménétrier, J. 198, 201, 1005, 6446
Meng, C. H. 1417
Mennega, A. M. W. 5291
Menyaĭlo, L. N. 1562
Menzies, M. I. 3348, 3349, 6181, 6810
Méo, J. 5545
Mercer, P. C. 6116
Mercer, R. E. 4366
Mercier, J. C. 1322
Mergner, W. 6192
Merkel, E. P. 1442, 5399, 5434, 6657
Merle, P. du 5400
Merlo, C. 5783
Merriam, R. A. 5046
Merrifield, R. G. 3780
Merrill, L. B. 3003
Merrill, W. 391, 4866, 5352
Mertens, P. 2001
Mertz, R. W. 2193
Merwin, M. L. 3277
Merzlenko, M. D. 5036
Mesaki, N. 6863
Meseman, W. T. 6419
Meso, S. 4275
Messerli, B. 2404
Messina, M. G. 5522
Messner, H. E. 6046
Metcalf, G. E. 5686
Meteer, J. W. 3313
Metelerkamp, H. R. R. 2515, 5571
Meter, W. P. van 4758
Methven, I. R. 1427, 1527, 7359, 7363
Metsak, V. V. 5863
Metsämuuronen, M. 1397
Metz, L. J. 4055, 4269
Metzger, F. T. 5628
Meurisse, R. T. 3117
Mew, G. 2095, 6835
Mexal, J. G. 137, 572, 5516
Meyer, H. 1696
Meyer, H. E. 1696, 1697, 4249, 4250
Meyer, J. L. 3675
Meyer, M. M. 6537
Meyer, M. M., Jr. 14
Meyer, M. P. 3987
Meyer, P. W. 1840
Meyer, U. 3901
Meylan, B. A. 6955
Mezhal, Ya. V. 69
Miceli, J. C. 1315
Michael, G. 6871
Michaelides, E. D. 3263
Michalak, K. 2147
Michalson, E. L. 4944
Michel-Kim, H. 3712
Michels, F. P. 2985
Middleton, L. J. 2753
Middleton, W. G. D. 38
Mider, R. H. 2605
Miegroet, M. van 2809, 6233, 6360
Mielikäinen, K. 3939
Migliaccio, E. 5637
Mignault, M. 6800
Migunova, E. S. 4067
Mijušković, M. 4242
Mika, P. G. 1708
Mikaberidze, M. S. 1657
Mikami, S. 6182
Mikhaĭlov, L. E. 4089, 6190
Mikhaĭlov, Yu. P. 915
Mikheev, A. V. 418, 419
Mikola, P. 3780, 6160, 6611, 7054
Milauskas, S. J. 3799
Mildner, H. 3161, 3967
Miler, Z. 4656
Miles, G. E. 1165
Miles, J. 902, 1880
Miles, J. A. 5196, 5201
Miles, R. S. 7110
Militon, J. 5542
Millar, C. 4185, 4188
Millar, C. I. 1607
Millar, C. S. 4173, 4185, 4188
Miller, A. 3780
Miller, C. A. 815, 816, 1770, 4226
Miller, D. R. 4681
Miller, E. L. 2035, 3320, 3933
Miller, G. E. 1728, 5397, 6040
Miller, G. R. 3660
Miller, H. G. 1944, 2039, 3728, 3738
Miller, J. C. 845, 4998
Miller, J. D. 2039
Miller, J. H. 5518, 5525
Miller, J. S. 1427

Miller, K. F. 6540
Miller, M. 1527, 4757
Miller, O. K. 4850
Miller, P. R. 2122
Miller, R. 52
Miller, R. A. 6069
Miller, R. B. 689, 6949, 6960
Miller, R. E. 372, 2005, 3143, 4443, 4453, 4455, 4456, 5245
Miller, R. F. 3004, 5014
Miller, R. G. 302
Miller, R. R. 3030
Miller, R. V. 2291, 3064
Miller, R. W. 579, 3315
Miller, T. B. 3941
Miller, T. O. 7293
Miller, W. G. 1646
Miller, W. J. 4203
Millikin, R. L. 2362, 5006
Mills, G. D., Jr. 3712
Mills, T. 3085
Mills, T. J. 240, 675, 3181, 5099
Milne, R. 1878
Milne, W. A. 2031
Milsom, S. J. 6127
Milstead, J. E. 861
Mims, C. W. 2900
Mincks, J. W. 1598
Minder, I. F. 3634
Ming, C. C. 6196
Mingo, P. de 5771
Minko, G. 3635, 4542, 6549
Minore, D. 1020, 3910, 4135
Minowa, M. 2063, 3320, 6166, 6197
Minter, D. W. 4183, 4186
Mio, S. 4774
Miranda, F. Infante 873
Mironov, P. V. 4790
Mirzoyan, S. A. 438
Mišćević, V. 6170
Mishenkov, N. N. 4686
Mishra, G. P. 6159, 6825
Mishra, J. 3066
Mishra, K. 6159
Mishra, P. R. 6049
Mishra, R. R. 379, 3481, 4858, 5335
Mispagel, M. E. 4199
Misra, A. 6186
Misra, B. M. 5951
Misra, J. P. 6156
Misra, K. N. 2645, 4295, 5052
Misra, M. P. 2357
Misra, R. 1851
Misra, S. 6186
Mitchell, A. F. 2148
Mitchell, A. W. 4368
Mitchell, B. 7271
Mitchell, B. R. 1321
Mitchell, C. P. 73
Mitchell, C. W. 245
Mitchell, D. T. 4928
Mitchell, J. C. 4973
Mitchell, R. 2183
Mitchell, T. 7384
Mitra, R. 5204
Mitra, R. L. 2792
Mitsch, W. J. 931, 4124
Mittal, A. 6155
Mittal, M. C. 2018
Mittal, R. K. 4867, 4869, 4870, 5381
Mittempergher, L. 3509, 3522, 5965
Mittermeier, A. 1854
Mitton, J. B. 7102
Miyajima, H. 6183
Miyake, N. 6859, 6860, 6861, 6863
Miyata, I. 6687
Miyatake, M. 7203
Miyazaki, M. 6185
Miyazaki, Y. 874, 6183
Miyoshi, H. 6686
Mizell, R. F. 3648
Mizell, R. F., III 1752
Mizrachi, D. 3443
Mlinšek, D. 2813, 6164, 6358
Młodzianowski, F. 366
Mnzava, E. M. 1342
Mobley, H. E. 672
Moden, W. L., Jr. 5201
Moeck, H. A. 829, 3625
Moehle, D. E. 5200
Moeller, G. H. 1307, 2417, 6194
Moellman, E. E. 2368
Moeur, M. 4578
Moguedet, G. 5892, 5893
Mohamed, M. A. 6035, 7333
Mohanan, C. 3545, 6188
Mohn, C. A. 312
Mohrdiek, O. 7119
Möhring, B. 6814
Möhring, C. 426
Moini, S. 5201
Moir, W. H. 5901
Moiseev, N. A. 5223
Moiseev, V. S. 6695
Molchanova, A. I. 1276
Molder, M. 2166
Mol'derf, V. E. 3905
Molenaar, J. G. de 6104
Molina, R. 368, 755, 3482, 4845, 5949
Molina, R. J. 7141
Molion, L. C. B. 3758
Moll, E. 7047
Moll, E. J. 294, 723
Möller, G. 296, 2555
Momodu, B. 6008
Momoh, Z. O. 4158
Monache, F. Delle 1160, 1161
Monache, G. Delle 1161
Monaco, P. A. 5934
Monchak, S. 6380
Mondjannagni, A. 2490
Monge, C. 1279, 7344
Mongi, H. O. 481, 3086
Monigatti, C. R. 1313
Moniz, M. F. 3265
Monjauze, A. 685, 2143
Monserud, R. A. 598, 2016
Montagna, G. 5563
Montalvo, M. I. 2859
Montano, J. M. 19
Monteith, D. B. 2048, 3317
Montero de Burgos, J. L. 6476
Montero de Juan, F. J. 6476
Montes, C. 641
Montgolfier, J. de 5540, 6160
Montgomery, A. A. 2072, 2419
Montgomery, G. G. 1251, 1252, 1253, 1254, 1255, 1256
Moody, B. H. 1706, 2335, 4366
Moody, N. R. 6858
Moore, A. 1730, 5418
Moore, G. E. 1230
Moore, J. A. 1708, 4223
Moore, K. E. 316
Moore, L. J. 1427
Moore, N. F. 2937
Moore, R. 3085
Moore, W. C. 2691, 6781
Moore, W. H. 6518
Moore, W. R. 5800
Moosmayer, H. U. 1085, 1086, 1421, 3790
Mopper, S. 2326
Moran, G. F. J. 740, 3462
Moran, V. C. 5383
Morandini, R. 1904, 3202, 3263
Morbitzer, A. 1333
Mordue, J. E. M. 761
Mordukhovich, A. I. 268
Morehart, A. L. 4901
Moreira, J. C. 1859
Morelet, M. 5372
Morén, E. 7084
Morenius, B. 6640
Moreno, G. 767
Moreno, J. Berrio 3577
Moretti, F. 5417
Moretti, P. 6984, 6985
Morey, M. 3015
Morgan, E. D. 3712
Morgan, F. D. 39, 834
Morgan, W. B. 5111, 5130, 6347
Morge, G. 2977
Morgenstern, E. K. 1180, 1913, 6412
Mori, K. 6015
Mori, M. 6705
Mori, N. 6967
Mori, S. A. 712, 713, 1577, 1578
Mori, T. 2535, 4787, 4788, 6165
Mori, Y. 6284
Morikawa, Y. 6165
Morin, L. 1866
Moring, J. R. 890
Morioka, S. 3284
Moriondo, F. 2899, 3520, 3521, 3523, 5844
Moris, J. 483
Morita, E. 5617, 6214
Morita, M. 6284
Morita, Y. 4812, 7045
Morley, T. 4106
Moro, J. 6197
Morocco, Centre National de Documentation 1
Morocco, Ministère de l'Agriculture et de la Réforme Agraire 2397
Moroto, K. 3669
Morozov, V. A. 3018, 6433
Morrier, K. C. 6763
Morris, D. J. 3030
Morris, J. D. 252
Morris, J. G. 5018
Morris, J. W. 2500
Morris, L. A. 6069
Morris, M. J. 3657
Morris, O. N. 1242, 1731, 4999, 5418
Morrison, D. B. 3330
Morrison, D. J. 3125, 4342, 5962, 7166, 7169
Morrison, I. K. 1002, 1003, 3843, 4445, 4712, 6899
Morrow, L. D. 1949
Morrow, R. A. 5077
Morrow, R. R. 1978
Morse, E. 477
Morton, M. B. 2017
Mory, P. 5542
Moser, B. C. 33
Moser, J. C. 3574, 4962, 5412
Moser, J. W. 3320
Moser, J. W., Jr. 4638
Moser, O. 6475
Moser, W. 943
Moshkalev, A. G. 6694
Mosley, J. G. 4325
Moss, D. 1883
Moss, R. P. 5124, 6347
Mossadegh, A. 3265
Motal, Z. 828
Mott, J. J. 6908
Mott, R. L. 5358, 6420
Motto, H. 1623
Moulin, A. 5545
Moulopoulos, C. 6358
Mount, A. B. 6926
Moyo, P. M. 2511
Mráček, Z. 6594
Mrazek, F. 1009, 1031, 1769, 2627
Mueggler, W. F. 1764, 4125
Mueller-Darss, H. 6338, 6339
Mugasha, A. G. 6634
Müggenburg, N. 6283
Mugnozza, G. S. 5603, 6777, 7000
Muhammad, A. B. 5592
Muhammad Jabil 948
Mühlhäusser, G. 1420, 1630
Muhs, H. J. 2250, 6183, 6184
Muir, K. 2427
Mukhopadhyay, S. 4150
Mullenbach, P. 3052
Müller, F. 6079
Müller, P. 2245
Müller-Starck, G. 4841, 7095
Müller, W. J. 2000
Mullette, K. J. 387, 2760, 2761, 2762
Mullin, L. J. 5331
Mullin, R. E. 216, 217, 218, 219, 570, 1016, 1017, 1396, 1399, 4471, 4473, 4474, 4475, 4476, 4477, 4478, 4479, 4480, 4481, 4509, 4513, 6468
Mumma, R. O. 2364
Munaut, A. V. 3707
Münch, W. D. 4535, 7313
Muncy, J. A. 5523
Munga, F. M. 7157
Muniyappa, N. C. 3547
Muniyappa, V. 3551, 4148
Munnecke, D. E. 2279
Muñoz, C. 3259, 5343
Muñoz, [C.] 5387
Munro, D. D. 1866
Munro, J. 4366
Munro, R. C. 1884
Münster-Swendsen, M. 5394
Munyarugerero, G. 6097
Murai, M. 4684, 4685
Murakami, E. 3365
Murakami, Y. 853, 5424, 5425
Muraro, S. J. 1527
Murashima, Y. 6284, 7362
Murgas, J. 1310
Murmanskaya, N. P. 4464
Murphey, W. K. 922, 1136
Murphy, B. D. 2440
Murphy, C. E., Jr. 698, 4702
Murphy, J. D. 302
Murphy, M. L. 448
Murphy, P. A. 4575, 5523, 5524, 5733, 6482
Murray, A. M. 255
Murray, M. 5173
Murray, M. D. 372, 2005
Murray, R. B. 2370, 2757
Murray, T. S. 2522
Murtha, P. A. 1476, 3979
Murzov, A. I. 4505
Muse, D. 5516
Musnier, A. 6796, 6797
Musselman, K. 269
Musselman, L. J. 3553
Musser, L. A. 477
Mustanoja, K. J. 4621
Mustian, A. P., Jr. 3306
Mutch, R. W. 5800
Mutch, W. E. S. 6239
Muthana, K. D. 2527, 3060, 5677, 7314
Muthoo, M. K. 1872, 5562, 6296
Mutz, J. L. 2607
Muzzi, S. 6237
Myastkovskiĭ, P. N. 129, 4517
Myers, B. J. 38, 619, 623, 2689, 6780
Myers, C. 3315
Myers, J. F. 1931
Myers, N. 3751, 6100
Myers, P. M. 4327
Myers, W. 5987
Myhrman, D. 6649
Myren, D. T. 1676, 4157, 7196
Nadeau, J. P. 54
Nadkarni, N. M. 759, 2149
Nadolny, C. 38
Nagao, A. 4105, 6181
Nagar, M. L. 5781
Nagaveni, H. C. 6398
Nagel, P. 2245
Nagumo, H. 6166
Nagy, M. M. 6474
Naidenov, J. S. 364
Naidu, R. 5378
Nair, J. 2917
Nair, K. S. S. 2938, 4949
Nair, P. K. R. 482
Nair, P. N. 1969, 2406
Nair, R. B. 4121
Nair, V. M. G. 5378
Naithani, H. B. 718
Nakagawa, K. 6967
Nakajima, I. 6198, 6783
Nakama, Y. 3164
Nakamura, M. 6196
Nakamura, T. 7374
Nakamura, Y. 2640, 4711
Nakano, K. 1861

Nakashima, T. 4948
Nakashizuka, T. 6501
Nakasone, H. 3408
Nakasuga, T. 3365, 3372
Nakvasina, E. N. 6447
Nambiar, E. K. S. 560, 3414, 3723
Nambiar, S. E. K. 3723, 3739, 3740
Namkoong, G. 6183, 6197
Nanda, K. 6155
Nanko, H. 1154, 3409
Nänni, U. W. 5456
Nanson, A. 349, 1923
Nanu, N. 2977
Nao, T. van 1340
Narang, K. 6427
Nardi Berti, R. 5826
Nartov, P. S. 5640
Nash, A. J. 3316, 4626
Nashimoto, M. 3435
Näslund, M. 212
Nasr, T. A. 7001
Nather, J. 6359
Naughton, G. G. 7316
Naumenko, N. K. 2775
Nautiyal, J. C. 1827
Navarre, R. 5661
Navon, D. I. 3300, 3302
Navratil, S. 4154, 4844, 7141
Nayar, R. 1664, 5341
Nazarov, Yu. P. 6529
Nazma 1550
Nazmul Haque, Md. 2484
Neal, J. W., Jr. 4268
Neal, R. L., Jr. 3745
Neale, D. B. 2254
Neary, D. G. 6925
Neaves, P. I. 5448
Nebe, W. 253, 6839
Nebeker, T. E. 1223
Nechaev, Yu. A. 4873
Nedialkov, S. 2817
Neel, W. W. 1752, 3643
Neely, D. 114, 658, 2922, 7183
Neenan, M. 79, 5136
Nef, L. 822, 823, 919, 5001
Neff, D. J. 1247
Negbi, M. 5601
Negi, G. S. 5234
Negi, J. D. S. 1124
Negi, S. S. 1446, 6980
Negro, G. 3259
Negrutskiĭ, S. F. 1630, 4887
Neil, B. S. 4421
Neilsen, W. A. 3021, 3213, 3214
Neisess, J. 4272
Nekhaĭchuk, O. G. 6889
Nekrasov, M. D. 4497
Nekrasova, T. P. 4103, 5924
Nellbeck, R. 296
Nelson, B. 861
Nelson, D. O. 3081
Nelson, E. A. 2158, 3122
Nelson, E. C. 285
Nelson, E. E. 2005, 4165, 4196
Nelson, J. A. 1951
Nelson, L. E. 4004
Nelson, L. R. 1039
Nelson, N. D. 2142, 2159
Nelson, R. M., Jr. 4743
Nembi, V. 4937
Němeček, J. 1950
Németh, M. 5377
Neophytou, C. N. 6367
Nepal, Agricultural Documentation Centre 5491
Nesbitt, H. J. 3502
Nesin, A. P. 4204
Nessel, J. K. 6886
Nessel, W. 4553
Nethercott, K. H. 3739
Netscher, C. 6030
Nettleton, W. A. 4206
Netzer, D. 1936
Neuenschwander, L. F. 671, 1545
Neugebauer, Z. 3111
Neumann, E. 3394
Neumann, F. G. 37, 3635
Neumann, M. 2730, 4289
Neuroth, G. 4681
Neusser, H. 979
Neustein, S. A. 6228, 6241
Neuwinger, I. 6854
Nevalainen, S. 1641
Neverov, Yu. N. 1440
Nevolin, O. A. 502
Nevzorov, V. M. 6845
New, T. R. 798, 5395
New Zealand, Forest Service 5811
New Zealand, Forestry Council 6301
New Zealand, Logging Industry Research Association 3170
New Zealand, New Zealand Farm Forestry Association 1313
Newbold, A. J. 3862
Newbould, P. 1809
Newcombe, K. 943
Newell, W. R. 3276, 7236
Newman, C. J. 6115
Newman, D. M. 5470
Newman, E. I. 4822, 4825
Newman, K. 1463
Newport, C. A. 5094
Newsom, J. 3444
Newsome, A. E. 6907
Newstead, R. 4039
Newstead, R. G. 4037, 4038
Newton, C. M. 1866, 3311
Newton, I. 1883
Newton, J. P. 3688, 7347
Newton, M. 2005, 2604, 3131, 3762
Newton, N. G. 4912
Nezabudkin, G. K. 5614
Ng, F. S. P. 1566, 2167, 2170, 3713, 4060, 4061, 6165, 6418, 6837, 7014
Ng, R. 1851
Ng, S. M. 1857
Ngampongsai, C. 1853
Nguu, N. V. 1855
Nguyen, D. 1097
Niang, M. 1290
Nicholls, G. H. 3739
Nicholls, P. H. 5141
Nicholls, T. H. 1648, 6029
Nicholson, A. 1879
Nicholson, D. I. 1435
Nicholson, D. W. 38
Nicholson, P. H. 6905
Nicholson, S. A. 3436
Nickle, W. R. 6185
Nickles, J. K. 1038
Nicklisch, G. 5303
Niederleitner, J. 4756
Niefnecker, W. 6434
Nielsen, D. G. 2329, 2957
Nielson, R. W. 1430
Niemelä, P. 813, 6006, 6976, 6977, 6978, 7213
Niemeyer, H. 2967, 7195
Nienhaus, F. 2311
Nienstaedt, H. 322
Niesslein, E. 3690, 5068, 7376
Nijholt, W. W. 1226, 2355, 7227, 7228
Nikhra, K. M. 4921
Niki, T. 3832, 6181
Niklas, K. J. 2157
Nikles, D. G. 2864
Nikolaidis, M. 6365
Nikolayuk, V. A. 3771
Nikolov, S. 3399
Nikol'skiĭ, V. I. 3637, 5416
Nikonov, M. V. 4492
Nikonov, V. V. 4576
Nilsson, B. 1043
Nilsson, G. 6533
Nilsson, J. E. 5868
Nilsson, P. O. 6474
Nilsson, S. 5237
Niño Velasquez, E. 3275
Ninomiya, I. 6180
Nishigaki, S. 6859
Nishiguchi, K. 4968
Nishimoto, T. 5794
Nishizawa, M. 2646, 3230, 3231, 3232, 4646, 6167, 6200, 6201
Nix, H. A. 530
Nkaonja, R. S. W. 2510, 5571
Noack, D. 6346
Nobel, P. S. 4791
Noble, D. L. 1386, 2600, 2719, 2721
Noble, I. R. 6904, 6907
Noble, J. C. 6909
Nobuchi, A. 2346
Nocentini, S. 493
Nock, H. P. 6298
Noel, J. C. 354
Nogami, K. 4646
Nogler, P. 5821
Noh, J. H. 6665
Nolthenius, C. T. 1887
Nômmik, H. 2555
Nomura, I. 6284
Nomura, K. 7300
Nomura, T. 5306, 5833
Noort, A. V. van 1799
Noraini, M. T. 5779
Norani, A. 6837, 7182
Norby, R. J. 3383
Nord, J. C. 1221
Nordansjö, I. 6202, 6478
Norén, B. 2198
Norikoff, G. 943
Norin, B. N. 728
Norokorpi, Y. 6254, 6745
Noronha, R. 1339
Norris, D. M. 6193
Nortcliff, S. 6073
North, C. 6380
Norton, C. R. 34
Norum, R. 4755
Norum, R. A. 2134, 4049
Norway, Landbrukshøgskole, Institutt for Skogøkonomi 2074
Nostrand, R. S. van 1004, 1910, 3954, 4366
Notsu, Y. 7203
Nott, L. D. 3303
Nougarède, O. 5539
Novais, R. F. de 553, 554
Novák, J. B. 1666
Novellie, P. 6058
Novik, S. N. 3494
Nowinsky, L. 6009
Noy-Meir, I. 5907
Nozeran, R. 93
Nucci, A. 5664
Nugent, J. A. 3265
Numata, K. 6474
Numata, M. 1855, 4811, 6501
Nunotani, T. 5903
Nuszdorfer, F. C. 1089
Nuttall, M. J. 1232, 1233
Nuttall, R. E. 2409
Nwoboshi, L. C. 2097
Nykvist, N. 1512
Nylund, J. E. 4857
Nyyssönen, A. 3781, 5578, 5744
Oakes, A. J. 6139
Oakes, R. D. 1699, 4249
Oakley, A. 6053
Oates, N. M. 4319
Oba, K. 7101
Obata, S. 6483
O'Brien, D. 6588
O'Brien, D. S. 3585
O'Brien, J. V. 6
Obruchnikov, S. G. 2588
Obydennikov, A. I. 4417
O'Carroll, N. 3248
O'Connell, A. M. 3735, 3740
O'Conner, D. 1817
O'Connor, K. F. 943
Oda, A. 7203
Oda, K. 3408, 3630, 6185
O'Dair, J. R. 1438
Odendaal, M. 1212, 1693, 1694
Odendaal, P. B. 445
Odera, J. A. 6192
Oderwald, R. G. 1090, 3312, 3799, 4655
Odom, D. 861
O'Driscoll, J. 3450
Oduro-Afriyie, K. 6074
Oehlschlager, A. C. 1711
Oehrens, E. 4851
Oester, B. 2068
Ofosu-Asiedu, A. 1634
Ogambo-Ongoma, A. H. 6165
Ogasawara, R. 3284, 3292
Ogawa, M. 2100, 5333, 6180, 7126, 7127
Ogawa, S. 7307
Ogden, J. 227, 6126
Ogievskij, V. D. 5591
Ogilvie, C. 4036
Ogimi, C. 5375
Ogiyama, K. 6183
Ogner, G. 5787
Oguchi, T. 1199, 4914
Oguntala, A. B. 1851
Ogureeva, G. N. 3672
Oh, M. H. 4992
O'Halloran, N. J. 1814
Ohba, K. 6183, 6185, 6197, 7101
Ohigashi, H. 1724
Ohlsson, H. 6348
Ohlsson, P. I. 7083
Ohmann, L. F. 6858
Ohmart, C. P. 36, 37, 38, 39, 40, 41, 1210, 2930, 5404
Ohmart, R. D. 3030
Ohms, D. J. 2061
Ohnuki, I. 6198
Ohr, H. D. 2279
Ohsato, S. 6478
Ohta, H. 7250
Ohta, K. 2550
Ohta, S. 6187
Ohta, T. 2385
Ohtomo, R. 6838
Ohyama, T. 2383
Oikarinen, M. 2015
Oikawa, N. 1956
Oispov, V. V. 5090
Oja, S. 6142, 6143
Ojala, H. 6976
Ojo, G. J. A. 5109
Okada, S. 6182
Okafo, O. A. 1972
Okafor, J. C. 205
Okali, D. U. U. 1272
Okamoto, H. 2965
Okamura, K. 4076
Okęcki, S. 7388
Okhlopkov, P. E. 6695
Okhubo, M. 4589
Okigbo, B. N. 2414
Okino, K. 6422
Okita, J. 4711
Okołów, C. 5076
Okoro, O. O. 3828
Oku, H. 6185, 7250
Okubo, R. 5008, 5009
Okuda, S. 7191
Ola-Adams, B. A. 1459, 3446, 3940
Olberg-Kallfass, R. 5978
Old, K. M. 36, 37, 38, 39, 40, 41, 4902, 5163
Oldeman, R. A. A. 2758, 6200
Oldemeyer, J. L. 5718
Oldford, L. 4953
Oleksyn, J. 5591
Olembo, R. J. 6165
Olie, J. J. 6353
Oliveira, D. D. de 433
Oliveira, G. D. de 3368
Oliveira, J. J. P. de 676
Oliver, C. D. 293, 2005, 3144
Oliver, G. R. 3740
Oliver, W. W. 1467, 3871, 3893, 3894, 3951
Oliveria, F. L. 773, 5992
Olivier, R. C. D. 1853
Olkowski, H. 3105
Olkowski, W. 3105
Ollas, R. 6741
Olofinboba, M. O. 3814
Olofsson, E. 869
Olofsson, G. 5236
O'Loughlin, C. 3677
Olovyannikova, I. N. 2106, 3810

Olson, C. E., Jr. 6768
Olson, J. T. 6799
Olson, S. C. 968
Olsson, L. E. 6754
Omel'yanenko, A. Ya. 4534
Omlin, F. X. 410
Omran, T. A. 7001
Omule, S. A. Y. 618, 2014
Omura, H. 7300
Ondro, W. J. 4677
O'Neill, G. M. 6303, 6306
O'Neill, R. V. 1585
Oniki, M. 7307
Onishi, H. 6879
Ono, M. 208
Onuf, C. P. 1252
Oohata, S. 2765
Oosterbaan, A. 1408, 6622
Oosterhuis, L. 6492
Openshaw, K. 483, 5108
Opler, P. A. 1252
Öquist, G. 4793
Ordinario, F. F. 4441
Ordon, S. 3376
Oren, D. C. 7037
Organisation for Economic Co-operation and Development 4364
Örlander, G. 3874
Orlov, A. Ya. 5175
Orlov, O. K. 5809
Orlov, V. A. 803
Orlova, N. I. 290
Orme, R. K. 3448
Orni, E. 6281
Orozco, H. 3578
Orús, M. I. 691
Osara, N. A. 1043
Osborne, H. L. 1708
Osborne, L. 905
Osetrova, G. V. 1562
Osgood, E. A. 5411
O'Shaughnessy, P. J. 1813
Oshkaev, A. Kh. 441
Osipov, V. I. 1562
Osmond, C. B. 4791
Osmonen, O. 5865
Ostaff, D. P. 7236
Ostapenko, Ya. V. 2424
Osteen, C. 5740
Österström, L. O. 5197
Osthoff, H. 3888
Ostman, N. L. 6995
Ostrofsky, A. 4893, 5347
Ostrofsky, W. D. 4159
Ostrolucká, M. G. 6982
Ostry, M. E. 364
Osumi, Y. 251, 6165
Oswald, D. D. 3318
Oswald, H. 6240
Oswald, J. 6250
Ota, I. 4000
Otchere-Boateng, J. 3220
Ott, E. 3055, 6361
Ott, M. 5742
Ott, W. 6230
Otta, J. D. 1191, 1619
Otto, H. J. 1892
Otto, J. 3652
Otvos, I. S. 1706, 1707, 2334, 2974, 2981, 2982
Ouchi, S. 6185, 7250
Ouellette, G. B. 4166, 4167
Outcalt, K. W. 2185
Outer, R. W. den 7018
Overhulser, D. L. 846, 2561, 3626
Overrein, L. N. 6867
Overton, W. S. 4228, 4943
Ow, L. von 5609
Owens, C. D. 3596
Owens, E. G. 4525
Owens, J. N. 2166
Owston, P. W. 557, 1954, 1959, 3123
Oyadomari, M. 6196
Oyebande, L. 6074
Oza, G. M. 4407
Ozawa, T. 4266
Ozolin'sh, R. K. 5703
Paavilainen, E. 6254, 6440, 6441
Paci, M. 3198
Packee, E. C. 3114
Paden, J. W. 2541
Padoch, C. 1855
Padua, L. F. M. de 3014
Page, C. N. 7022, 7026
Page, I. 6531
Page, M. 2368, 4273
Pagony, H. 1631
Pai, N. Y. 6606
Paillé, G. 43
Pain, S. K. 1938
Paine, D. P. 6769
Paine, L. A. 1335
Paine, T. D. 845, 4235, 4998
Päivänen, J. 6602
Päivinen, R. 3285
Pajunen, L. 6343
Pakhomova, M. V. 6998
Pal, R. N. 6980
Pala, S. 3979
Palacios, F. 3013
Palaniappan, V. M. 904
Palit, S. 983, 1012, 1990
Paliwal, G. S. 6150, 6974
Paliwal, S. P. 6974
Palm, R. 2020, 2651, 3287
Palm, S. L. 5534
Palmberg, C. 5577
Palmer, E. R. 6305
Palmer, F. 4504
Palmieri, M. 1341
Palz, W. 70, 5131
Palzer, C. 37, 40, 789, 818, 821
Palzkill, D. A. 28
Pam, R. 936
Pamaznyuk, V. A. 6471
Pampel, W. 3907
Pan, S. Y. 3543
Pancel, L. 6927
Panconesi, A. 163, 2910, 3497, 4904, 4911, 4937, 5664
Pande, P. 1500, 2707
Pandev, S. 4707
Pandey, U. 5775
Pandey, V. N. 2645
Pandian, T. J. 1857
Pang, P. C. 4709
Pannier, F. 3443
Pannier, R. 3443
Panova, N. K. 5890
Pant, M. M. 6750
Pant, R. C. 2707
Panwar, H. S. 1855
Panzer, K. F. 482
Papageorgiou, N. K. 6367
Papamichos, N. 6360
Paparozzi, E. T. 20, 27
Papazov, V. 1631
Papdiwal, P. B. 5376
Papusha, V. Z. 4871
Parabia, M. H. 4819
Parameswaran, N. 6947
Parant, N. 6160
Pardé, J. 1996, 6194
Pardy, G. F. 2584
Pardy, K. E. 2316, 3585
Parfenov, V. I. 2820
Parfitt, R. I. 6244
Parihar, D. R. 1679, 7208
Pariyskaya, A. N. 3494, 3495
Park, B. K. 3359
Park, C. K. 7023
Park, C. S. 5421
Park, R. F. 784
Park, Y. G. 7109
Parkenson, R. H. 1389
Parker, D. L. 838
Parker, J. A. 5516
Parker, J. D. 4481
Parker-Jervis, R. 6241
Parker, M. L. 1842
Parkhurst, J. A. 5908
Parkinson, D. 1586
Parlar, M. 6922
Parmentier, G. 2092
Parmeter, J. R., Jr. 7172
Parminter, J. V. 2802
Parolin, R. W. 5198
Parore, T. 6306
Parr, T. W. 1884
Parra, F. 7369
Parra H., H. 3090
Parrini, C. 168, 3497
Parry, W. H. 402
Parsons, D. J. 7366
Parthasarathi, K. 396
Partomihardjo, T. 4128
Partridge, A. D. 2349
Partyka, R. E. 5487
Parviainen, J. 6461, 6613
Pas, J. B. van der 2277, 5973
Pasca, T. M. 1338, 5573
Páscoa, M. F. 3262
Paşcovici, V. D. 1747
Pascual, J. N. de 230
Pascuas, N. B. de 3443
Pase, C. P. 724, 2240, 3030, 5465
Pase, H. A., III 2968
Paserin, V. 6888
Pashuk, Kh. T. 5819
Pasternak, P. S. 6442, 6872
Pastor, J. 2029
Pataczek, W. 3214
Patar, K. C. 1853
Patel, J. D. 5831, 6946
Patel, K. R. 5932
Patel, R. N. 1155
Paterson, D. B. 1345
Paterson, J. M. 130, 131, 132, 5176, 5177
Paterson, N. 2257
Patetta, A. 207
Pathak, P. S. 5146
Patil, A. S. 3550
Patil, S. D. 5367
Patiño Ochoa, E. 3275
Patric, J. H. 5194, 6874, 7304
Patrick, W. H., Jr. 3444
Patrone, G. 2670, 5550, 5758, 6099
Patronov, D. 2746
Patti, J. H. 2317
Patton, D. R. 881, 2372, 3023, 3030, 3658, 3659
Patton, R. F. 3514
Patton, R. L. 4717
Paul, D. K. 3263
Paul, F. 3099
Paul, H. G. 3609
Paul H. Jones & Associates Limited 6354
Paul, R. 1134, 3217
Paula, J. B. da 2154
Pauliukevičius, G. 5446
Paulyukyavichyus, G. 5446
Pavan, M. 1742, 1748, 1749, 1750
Pavlinov, N. P. 860
Pawlowski, P. 1260
Pawuk, W. H. 375, 7141
Payandeh, B. 1027, 1092, 3961, 6402
Payne, B. R. 6682
Payne, K. 5953
Payne, T. L. 3567, 4947, 5409, 6015, 6190
Paysen, T. E. 1598
Pchelin, V. I. 6388
Peabody, D. V., Jr. 2032
Peakall, D. B. 443
Pearce, A. J. 3671
Pearce, M. L. 76, 5133
Pearce, P. A. 443
Pearce, R. B. 3537, 4876
Pearson, H. A. 4055, 5020, 5526
Pearson, R. S. 6277
Peat, N. 6226
Peck, H. 4380
Peck, K. M. 7113
Pederick, L. A. 2532
Pedersen, A. M. 6259
Pedersen, R. C. 1039
Pedrosa-Macedo, J. H. 3586
Peet, G. B. 6909
Peet, R. K. 3427, 3428
Peeters, J. P. 1792
Pegg, R. E. 4598
Pegoraro, R. A. 3879
Peh, C. H. 451, 6080
Peixoto, A. L. 2178
Pelham, J. 1880, 4153, 4847
Pelissari, A. 3879
Pélissier, P. 1287, 2490
Pelizzo, A. 2256
Pellet, H. 650
Péllico Netto, S. 3180
Pelt, J. van 1303
Pelz, D. R. 3309, 3965, 3978
Penafiel, S. R. 5644
Penerai, T. 5803
Peng, C. H. 1203
Peng, P. L. F. 6606
Penguang Manggil 3826
Penka, M. 2847
Pennanen, O. 5689
Pennetier, C. 5541
Pennington, T. D. 2796
Penny, N. D. 4940
Pentegova, V. A. 5827, 6983
Pentel'kin, S. K. 6572
Pepper, H. W. 7287
Pepper, R. G. 1813, 1814
Pepper, W. D. 1960, 1961
Perala, D. A. 4430, 6490, 6598
Percy, J. 4262, 4961
Percy, K.E. 4719
Peredo, H. 4201
Pérez, M. Rodríguez 811, 4234
Perfect, T. J. 647, 1856
Perina, V. 2416
Perkins, C. J. 183, 446
Perkins, R. G. 7385
Perlwitz, W. 6638
Peroutky, J. D. 5194
Perrin, R. 2164
Perry, D. A. 370, 2156, 6537
Perry, J. P., Jr. 5313
Perry, L. P. 30
Persson, A. 328, 4549
Persson, H. 1406, 2201, 2202, 2203, 2211, 2212, 2216
Persson, P. 6595
Persson, T. 2194, 2226
Pertsovskiĭ, A. L. 3413
Perttu, K. 2198
Perumpral, J. V. 5196
Perveen, R. 5150
Pestova, L. A. 4484
Petäistö, R. L. 4163
Peterken, G. F. 2474, 6241, 7358
Peterman, R. M. 4945
Petersen, M. E. 7368
Peterson, C. E. 3741
Peterson, D. L. 6865
Peterson, E. B. 4582
Peterson, G. W. 1191, 4179, 4893
Peterson, J. 943
Peterson, J. L. 397, 4369
Peterson, L. C. 312
Peterson, O. A. 4561
Peterson, R. M. 6162
Peterson, R. M., Jr. 1418
Peterson, W. 705
Petranka, J. W. 3437
Petré, Z. 1738
Petri, G. 1419
Petrides, G. A. 1853
Petrini, O. 1617
Petropavlovskiĭ, V. S. 3959
Petrov, A. P. 248, 2076
Petrov-Spiridonov, A. A. 5772
Petrov, V. V. 5885
Petrov, Ya. Ya. 1474, 4873
Petrova, I. P. 5765
Petrova, N. I. 646
Petsch, G. 258
Pettersson, B. 5442, 5567, 5568, 6331, 6478
Pettersson, I. 2197
Pettersson, S. 2210
Pettit, R. D. 1493
Petty, J. 1674, 1675
Petty, J. A. 1488
Pezo, D. 472
Pfeil, C. 4537, 6574
Phares, R. E. 1511
Philip, M. S. 148
Philipp, W. 4459
Philipson, W. R. 6767
Phillips, C. 6658
Phillips, C. B. 1531

Phillips, D. R. 604, 4569, 4570, 5226, 5522, 6684, 6685, 6726
Phillips, N. J. 4844
Phillipsen, W. J. 3623
Philpot, C. W. 271, 4733
Phipps, H. 1936
Piché, Y. 5338
Pickering, J. R. 7385
Pickett, T. L. 897
Pickford, S. G. 4740
Piearce, G. D. 210, 749
Piegai, F. 6570
Pienaar, L. V. 1058, 1318
Piene, H. 1485, 4218, 6499, 6576, 6577
Pieper, G. R. 4021
Pierce, H. D., Jr. 1711
Pierce, J. 5752
Pierovich, J. M. 4057
Pierpoint, G. 131, 132, 1427, 5177, 5495
Piesch, R. F. 2782, 3128
Pijl, L. van der 5869
Pike, L. H. 4808
Pilz, D. 6537
Pinder, J. E., III 3389
Pingaud, M. C. 5544
Pinguet, A. 5400
Pinker, R. T. 6903
Pinkerton, S. J. 3658
Pinnock, D. 861
Pinon, J. 777, 778, 2907
Pinon, J. D. 361, 365
Pintarić, K. 6359
Piper, H. 5939
Pipoly, J. J., III 2789
Pisanov, V. S. 5729
Pisar'kov, Kh. A. 5049
Pitcher, J. A. 7122
Pitel, J. A. 317
Pitman, M. G. 5254
Pitman, R. M. 892
Pitoni, A. 1021
Pitsch, M. 6559, 6560
Pitt, J. 2502
Pittaway, P. 3742
Piussi, P. 3765
Piyakarnchana, T. 3604
Plaisance, G. 2748
Plaskett, L. G. 4591
Platen, J. von 4023
Plattner, E. 3161
Platts, W. C. 5019
Platts, W. S. 1821, 6066, 6067
Plavšić, V. 389
Plébin, R. 667, 3387
Plochmann, R. 944, 3083, 5755, 6164, 6614, 7303
Plotnikov, E. G. 6081
Plotnikov, S. I. 6651
Plotnikova, L. S. 4439
Plum, P. M. 6259
Plummer, A. P. 2176
Plummer, R. M. 6250
Pluquet, H. 2582, 6553
Pobedinskiĭ, A. V. 2641
Pocknall, D. T. 4779
Podani, J. 5796
Podeyn, J. 6257
Podger, F. D. 37, 40, 2780
Podgwaite, J. D. 5420, 6035
Podlešáková, E. 1950
Poggesi, A. 164, 5664, 6625
Pohai, T. 943
Pohjonen, V. M. 980, 3802
Pohtila, E. 3253, 6807
Poinar, G. O., Jr. 2958
Poissonet, P. 1588
Pokusaev, G. A. 6091
Poleman, T. T. 484
Polhill, R. M. 1568
Poli, G. 7335
Polk, R. B. 2252
Polland, D. F. W. 3822
Pollanschütz, J. 2731
Pollard, D. F. W. 320, 5144
Pollard, E. 1883
Pollard, R. G. 6246
Pollisco, F. 480
Pollisco, F. S. 6165, 6181
Pollock, M. 3908
Pollock, M. R. 3908
Polmer, B. H. 5520
Polo, A. 2712
Poludnev, I. P. 4614
Poluéktov, E. V. 1277, 5056
Polupan, A. V. 6791
Polyakov, V. A. 2984
Polyakov, V. S. 3959
Polyakova, L. A. 4977
Polyanska, L. 116
Pomroy, P. C. 4533
Ponce, S. L. 1781, 5486
Ponchet, J. 162
Pond, S. E. 5970
Ponder, F. 5785
Ponder, F., Jr. 1511, 5785
Ponnuswamy, P. K. 994, 1942
Ponomarev, F. G. 4438
Pook, E. W. 40
Poole, B. 6375
Poole, B. R. 1390
Poon, S. K. 1857
Poonia, B. L. 7314
Poore, A. 7355
Poore, D. 1294, 1295, 1296, 2422
Poore, M. E. D. 1294, 1295, 1296, 2422
Pope, D. N. 832, 3569, 4252
Pope, P. E. 5522
Popoff, T. 2223
Popov, P. P. 5600
Popov, S. 6510
Popov, V. K. 4595, 5061
Popov, V. P. 901
Popova, M. P. 3849
Popova, N. M. 4595
Popova, O. S. 901
Popović, B. 2225
Popovich, S. 610, 3897
Poppendieck, H. 2798
Port, G. R. 407
Porterfield, R. 180
Porterfield, R. L. 180, 1721, 3303, 5330
Portier, K. M. 4995
Portlock, F. T. 2782, 5861
Portugal, CELBI 3261
Posharnikov, F. V. 4559
Posmet'ev, V. I. 5640
Pospíšil, J. 6982
Post, B. W. 6463
Potena, G. 6759
Pott, R. 5191
Potter, D. 6942
Potter, D. A. 3619
Potter, M. W. 4037, 4813, 5440
Potts, D. F. 4703
Potvin, F. 7281
Poulin, H. 6793, 6794
Poulsen, G. 480, 1283
Poulsen, L. B. 6389
Poupardin, D. 5539
Pourtet, J. 2467
Poutsma, T. 1120
Pouzar, Z. 2878
Powell, D. S. 3315
Powell, G. L. 3030
Powell, G. R. 6411
Powell, J. A. 4970
Powell, J. M. 1108, 1271, 4677
Powers, H. R. 3513
Powers, H. R., Jr. 2902, 3517, 5516, 5969
Powers, R. F. 1370, 1467, 2722, 6431
Powles, S. B. 4793
Poynton, R. J. 1432
Pöytäniemi, A. M. 6697
Poyurovskaya, R. I. 4546
Pozdnyakov, L. K. 6683
Požgaj, J. 2155
Poznański, R. 3321, 4377
Praag, H. J. van 3147, 3148
Prado, E. 1739
Prakesh, G. 5714
Prance, G. T. 288, 712, 1580
Prange, H. 4482
Prasad, B. N. 6144
Prasad, K. G. 1022
Prasad, R. 1583
Prasad, T. K. 6429
Prasad, U. N. 3066
Prathapasenan, G. 5832
Prats Llauradó, J. 2078, 3779
Prats-Zapiraín, M. 3779
Pratt, J. E. 1649
Pratt, L. M. 2157
Pratt, M. M. 1520
Pravdin, L. F. 532
Preaus, K. B. 1833
Prebble, R. L. 5569
Preece, R. E. 4290
Preen, U. 5651
Prentice, W. E. 470
Preston, D. 2096
Preto, G. 6758
Preuhsler, T. 3937
Prevosto, M. 2631, 3259, 5547, 5666, 5667, 5668, 6098, 6541
Priday, A. J. 445
Prien, S. 5038
Příhoda, A. 5402
Prikhod'ko, N. N. 1269, 5051, 6872
Prikhod'ko, V. E. 5776
Principe, E. B. 3452
Prioton, J. 1174
Prister, B. S. 4686
Pristupa, G. K. 4344
Pritam Singh 2285, 4878, 4932
Pritchett, W. L. 3221, 5161
Prival, M. 5543
Prljinčević, M. B. 1631, 5355
Probasco, G. E. 5024
Proe, M. F. 73
Progunkov, V. V. 708, 709, 4817
Prokhorov, V. B. 3274
Prokhorov, V. M. 2735
Prokhvatilov, Yu. F. 6536, 6791
Prokop'ev, M. N. 4584
Prokushkin, S. G. 1513, 1514
Proni, G. 2631, 6541
Prosser, J. M. 3302
Prota, U. 4898
Proud, K. R. S. 1853
Provenza, F. D. 3002
Pryakhin, P. N. 5809
Pryor, L. D. 1822, 6308
Pryor, S. N. 6801
Przybył, K. 360, 362, 364, 366, 2921, 4903
Pu, Z. L. 868
Puchert, H. 3267
Puerto Martín, A. 2860
Puhek, V. 2821
Puig, H. 2099
Pukacka, S. 366
Pukacki, P. 367
Pulcheva, D. 4707
Pulinets, M. P. 4412
Pulley, P. E. 4229, 4236
Pulley, P. N. 3569
Pulsford, J. S. 3732
Puma, B. C. 3712
Pundir, Y. P. S. 4075, 4198
Pupavkin, D. M. 400
Puppo, A. 5360
Purdie, R. W. 6909
Puri, Y. N. 3479
Purina, L. T. 6889
Puritch, G. S. 2365, 6764
Purkayastha, B. K. 2638
Purkayastha, S. K. 1156
Purnell, M. F. 3084
Purrington, F. F. 2329
Purrini, K. 6190, 6191
Purushotham, A. 6271
Pusey, L. 2288
Pusey, P. L. 1194, 2288
Putkisto, K. 5173, 6474
Puttaswamy 2956
Puttock, G. D. 6312
Pyasetskaya, E. A. 4064
Pyatt, D. G. 5778
Pye, A. E. 835
Pymar, C. F. 892
Qu, P. 6012
Quednau, F. W. 439
Quenet, R. V. 1945, 4659
Quervain, M. de 3035, 3049
Quesnel, H. J. 3358
Quézel, P. 1891
Quick, J. R. 3341
Quinn, R. D. 274
Quintilio, D. 1527, 4037, 4753
Qvortrup, S. A. 2542
Raalte, G. D. van 2664, 4971
Rabasse, J. M. 173
Rabbette, J. G. 1804
Rabor, D. S. 1853
Rabotnov, T. A. 5887
Rachwał, L. 367
Rack, K. 4191
Rackham, O. 1330
Rácz, J. 3183
Radcliffe, S. J. 955
Raddi, P. 152, 170, 781, 2910, 3473, 3513, 3522, 5664
Radite, D. S. 5480
Radosevich, S. R. 4086, 5018, 5648, 6567
Radovanovic, Z. 6366
Rådström, L. 6326, 6327
Radtke, W. 2616
Radu, S. 6184
Radvanyi, A. 3201
Radwan, M. A. 2772, 4078, 5160, 5257
Radwanski, S. A. 2411, 3712
Raev, I. 2846
Raevskikh, V. M. 124, 5690
Rafahi, H. 4696
Rafes, P. M. 3582
Raffa, K. F. 3570, 4243
Ragatz, R. L. 5072
Ragazzi, A. 2899, 3523
Ragenovich, I. 429
Ragenovich, I. R. 429, 3648, 7260
Raghaven, G. S. V. 5196
Ragsdale, H. L. 1843
Rahaman, A. 4621
Rahman, A. 4620, 4621
Rahman, M. A. 4890
Rahman, S. A. 2481
Rai, B. 254
Rai, J. N. 7125
Rai, M. 5371
Rai, S. N. 597, 1066, 2042, 5698, 6673, 6702, 6703
Raile, G. K. 3311
Raimer, J. 3321
Raina, V. 541
Rains, D. W. 4087
Raison, R. J. 2108, 3739, 3740
Raizada, M. B. 6149
Raj, S. F. H. 1778
Rajak, R. C. 4921, 5371
Rajala, P. 4284
Rajala, P. S. 7351
Rajashekara, G. 6971
Raju, D. C. S. 6147
Raju, P. S. 4193
Rakestraw, L. 2493
Rakhteenko, L. I. 3844
Rakov, A. Yu. 6089
Ralston, C. W. 2141
Ram, A. 1928
Ram, M. 2638
Ram, N. V. R. 4151
Ramaiah, K. S. 1659
Ramakrishna, T. M. 6971
Ramakrishnan, P. S. 2544, 2545, 5777
Ramakrishnan, T. 6430
Ramalho, R. S. 726
Ramam, S. S. 2711
Raman, A. 7211
Raman, S. 1236
Ramaswamy, S. B. 6039
Ramdial, B. S. 2418
Ramírez, C. 2718
Ramírez, O. 961
Ramlan, A. 6627
Ramola, B. C. 1777
Ramos, D. P. 4691
Ramsey, G. S. 6913
Rance, S. J. 3222
Randall, A. P. 1730, 1755, 4945, 5997
Randall, R. M. 2005, 3964, 3990, 5094
Randall, W. K. 5940
Randell, R. 819
Randuška, D. 6171

Ranft, H. 6871
Rangaswamy, C. R. 396
Ranido, V. O. 3026
Ranjitsinh, M. K. 1853
Ranke, W. 6890
Rankin, K. N. 6228
Ranneby, B. 234, 242, 3312
Ranney, J. W. 1864, 3924, 7037
Ranson, K. J. 1097
Rao, A. N. 2171
Rao, B. H. 4769
Rao, B. S. S. 5289
Rao, K. S. 4773
Rao, P. S. P. 4769
Rao, R. V. 5289
Rapp, E. 3244
Rapp, R. P. 4985
Rappaport, N. G. 440, 4271
Raquin, C. 102
Räsänen, P. K. 571, 1397
Raskatov, P. B. 686
Raske, A. G. 2981, 2982
Rasmuson, B. 7080
Rasmuson, M. 7087
Rasmussen, L. A. 1224
Rastogi, R. P. 3418
Rathowsky, D. A. 619
Rathwell, R. K. 6515, 6516, 6517, 6722
Rau, H. M. 3465
Rauch, A. von 6311
Rauch, E. W. 3315
Rauch, P. A. 864
Rauf, A. 434
Raulston, J. C. 11
Raupach, M. 3213
Rauter, R. M. 6425
Rauzi, F. 7327
Raven, P. H. 1568
Ravenel, A. 2398
Ravussin, H. 503
Rawal, R. D. 3547
Rawlings, M. K. 3507
Rawlins, W. H. M. 530
Raychaudhuri, S. P. 4148, 5378, 6186
Raymond, F. L. 4375, 5500
Raynaut, C. 5125
Rayner, A. D. M. 1639, 5959
Razali, H. 282
Razani, U. 6848
Razin, G. S. 4573
Rea, K. H. 2239
Read, A. 5198
Read, P. E. 4440
Read, R. A. 307, 2531
Read, R. W. 2184
Ream, C. H. 2373, 2442
Reardon, R. C. 2988, 2991
Reavis, R. 1047
Rebello, A. de L. 226
Rebenstorff, H. 7259
Recher, H. 6908
Rechsteiner, K. 1436
Recklinghausen, H. von 5675
Rector, J. 3998
Reddy, C. V. K. 1275
Redfern, D. B. 3529, 4889, 5766
Redfern, R. E. 3712
Redknap, R. S. 3712
Red'ko, G. I. 6447
Redlund, M. 3740
Redmann, R. E. 264
Redmond, R. D. 1140, 1148, 1149
Reed, D. D. 847, 7234
Reed, F. L. C. 1322
Reed, K. L. 3950
Reed, T. B. 531
Reemtsma, J. B. 3317
Reese, K. H. 5169
Reeves, F. B. 4860
Reeves, H. C. 5813, 6921
Reeves, J. W. 575
Reffle, R. J. 4476, 6456
Reghu, C. P. 6946
Rêgo, A. K. 554
Regulski, F. J. 4369
Řehák, J. 3295
Rehfeldt, G. E. 1919, 2524, 2526, 4687, 4834
Rehfuess, K. E. 374, 2293, 3999, 5854, 6816
Rehill, P. S. 3479
Rehschuh, D. 3186
Reich, P. B. 6165
Reichle, D. E. 1585, 2109
Reid, A. J. 4319, 4326
Reid, C. P. P. 2561, 3740, 7140
Reid, E. H. 4276
Reiger, R. 1018
Reilly, J. J. 1805
Reimers, E. 4284
Reimoser, F. 6176
Reiners, W. A. 3429, 4808, 5242
Reinert, J. A. 2359
Reis, G. G. dos 90
Reiser, D. W. 6063
Reissmann, C. B. 3369
Relton, J. 3382
Remacle, J. 2092
Rembold, H. 3712
Remröd, J. 5173
Rena, A. B. 90
Renault, J. 300
Renault, T. R. 816, 3276
Renner, S. 6666
Rennie, J. C. 3311
Rennie, P. J. 515
Rensi, G. 1320
Rentz, C. L. 5081
Repyakh, S. M. 2775, 4786, 6975
Resch, T. 601
Retnakaran, A. 3278, 4947, 4955, 5384, 5405, 5429
Reukema, D. L. 2005, 3923
Reunala, A. 6160
Revilla, A. V., Jr. 3958
Rexrode, C. O. 857, 2961
Reyes, I. E. 4318
Reyes, M. R. 58
Reynolds, J. F. 6420
Reynolds, M. R., Jr. 498
Reynolds, P. E. 3317
Reynolds, R. R. 5095
Reynolds, T. 7035
Reza, N. A. 3187
Rhea, H. T. 4634
Rhoades, D. A. 6835
Rhoads, A. F. 1840
Rhodes, J. D. 5522
Rhody, B. 3320, 4633, 5228
Riba, A. 6652
Ribeiro, G. T. 4257
Riccioni, R. M. 7335
Rice, J. 1392
Rice, R. M. 896, 2736, 4048, 4302
Richard, F. 5248
Richard, V. 6675
Richard, Y. 5156, 6676, 6677
Richards, B. N. 41, 3725, 4690
Richards, E. G. 6228
Richards, N. A. 926
Richards, P. 5126
Richards, W. C. 1644
Richardson, B. J. 4305
Richardson, B. Z. 1520, 4304
Richardson, C. J. 1527
Richardson, J. 1968, 1980, 2396, 2602, 3250, 4366
Richardson, M. L. 4263
Richardson, R. J. 5407
Richen, C. W. 3113
Richenhaller, J. 6637
Richerson, J. V. 3567, 5409, 6015
Richmond, C. E. 3644, 5010
Richmond, J. A. 5522
Richmond, M. L. 4283
Richmond, P. C. 1799
Richter, B. 2392
Richter, D. D. 2141
Richter, H. G. 4074, 4775
Richter, J. 1250, 6747
Rico-Rico, F. 6235
Ridder, H. W. 1633, 2278
Ridé, M. 359, 362, 365
Ridé, S. 362
Riding, R.T. 4719
Riebeling, R. 2676, 4700
Riedel, R. M. 2979
Rieger, G. 4537
Riekerk, H. 4442, 5526, 7302
Riemenschneider, D. E. 312, 1611
Rietveld, W. J. 2159, 4469
Riffle, J. W. 4159, 4160, 7141
Riitters, K. 4619
Rijniersce, K. 6094
Rijsdijk, J. F. 1465
Riley, J. L. 4131
Riley, L. F. 3868, 5198, 5634
Riman, D. K. 3973
Rin, U. C. 6084, 6546
Rinaudo, Y. 5541
Rinne, J. N. 5445
Rinne, R. J. K. 668
Rio Mora, A. A. del 6191
Riom, J. 2070
Ríos R., R. 465
Ripley, T. H. 84
Rishbeth, J. 1632, 5349
Rishi, N. 5378, 6186
Risør, V. E. 2799
Risse, P. 1192, 1193
Risser, P. G. 629
Riswan, S. 943, 1169
Ritchie, G. A. 1558
Ritchie, W. 1093
Ritter, G. 3505
Ritter, H. 6579
Ritter, M. 3267
Rittershofer, F. O. 3180
Rivaillon, P. 2057
Rivers, M. J. 7347
Rizzini, C. M. 1576
Rizzini, C. T. 1554, 1574, 1575, 1589
Robak, H. 5139
Robards, A. W. 4091
Robbins, A. M. J. 6404
Robbins, C. S. 7037
Robbins, K. 6029
Roberge, M. 549
Robert, D. 7105
Roberts, B. R. 1042
Roberts, J. 892, 1322
Roberts, J. E. 633
Roberts, O. C. 6250
Roberts, R. B. 2121, 6026
Roberts, R. J. 38
Roberts, R. T. 3032
Robertson, J. L. 440, 2363, 2368, 2992, 3645, 4271, 7202
Robertson, R. G. 662, 4706
Robinson, A. C. 888
Robinson, D. 3318
Robinson, D. W. 1866
Robinson, F. C. 5493, 6407
Robinson, V. L. 2072
Robinson, W. H. 6305
Robitaille, G. 3381
Robles, C. 1315
Robonen, E. V. 3362
Robredo, F. 6038
Rocha, D. 553
Rocha Filho, J. V. de C. 3368
Rocha, M. A. L. 3879
Roche, L. 3781, 3787
Roche, M. A. 6073
Rochon, G. C. 4154
Rochot, A. 5540
Rockwood, D. L. 3973, 6520
Roden, D. B. 2340
Rodiek, J. E. 6052, 6054
Rödig, K. P. 2675, 4665, 5085, 6674
Rodin, J. O. 428
Rodríguez, C. 4201
Rodríguez-Córdoba, J. M. González 873
Rodríguez Pérez, M. 811, 4234
Rodríguez, S. del A. 230
Rodríguez y Pacheco, A. A. 3224
Roe, F. L. 453
Roe, L. 4156
Roebbelen, P. 1456
Roeder, A. 3310, 3312, 5763, 6192, 6197
Roeder, K. R. 533
Roelofs, T. D. 6065
Roeper, R. A. 825
Roessel, J. W. van 1866
Roether, V. 1419
Rogers, A. L. 1814
Rogers, F. G. 1484
Rogers, G. K. 1557
Rogers, J. J. 3302
Rogers, L. L. 1258
Rogers, M. N. 3
Rogers, M. T. 6240
Rogers, N. 5955
Rogers, N. F. 7320
Rogers, T. J. 5002
Rogerson, T. L. 5530
Rohfritsch, O. 1681
Rohlfs, W. M., III 3620
Rohrbach, R. P. 5197
Röhrig, E. 2533, 3882, 6368, 6498, 6524, 6624
Roiko-Jokela, P. 3323, 6820
Roise, J. P. 2087
Rojo, J. P. 4111
Roland, J. C. 2150
Rolfe, G. L. 1315, 4699, 4704, 5451, 6865
Roll-Hansen, F. 769, 1185, 5942
Roll-Hansen, H. 769, 1185
Roller, K. J. 2596
Rollet, B. 3088
Röllig, H. 253
Romagnoli, E. 6236
Romane, F. 1588
Romanov, E. S. 241
Romanov, G. N. 4686
Romashov, N. V. 6110
Romesburg, H. V. 3748
Romm, J. 510, 511, 2405, 5469
Rommann, L. M. 3006
Ronald, W. G. 1600, 2452
Ronco, F. 1426
Ronco, F., Jr. 1386, 3199
Ronde, C. de 267
Rondeux, J. 2066, 2648
Rooden, J. van 4778
Rook, D. A. 3349, 6810
Rooney, B. 84
Roosmalen, G. M. van 1854
Roper, R. B. 184
Roques, A. 854, 2323, 4216
Rosa, H. 5128
Rose, A. H. 795
Rose, D. 5581, 6799
Rose, D. J. W. 403, 404
Rose, D. W. 3304
Rose, G. A. 1866
Rose, R. 3691
Rose, R. W., Jr. 2262
Rose, S. D. 4199
Rose, S. L. 6537
Rosén, K. 1512
Rosero, P. 475
Rosiyanov, S. P. 5789
Roskamp, G. 575
Roskoski, J. P. 1501, 3483, 3484
Rosnev, B. 1631
Ross, D. J. 4689, 6842
Ross, D. W. 4342
Ross, E. W. 4057, 7165
Ross, G. A. 4668, 6766
Ross, J. H. 2805
Ross, L. 6272
Ross, M. S. 3089
Ross, R. 6244
Ross, S. D. 2782
Ross, W. K. 210
Rossman, W. R. 144
Rosswall, T. 1502
Rostovtsev, S. A. 532
Rosvall-Åhnebrink, G. 346, 4465
Rosvall, O. 744
Roten, D. 5517
Roth, I. 4073
Roth, L. F. 1632
Roth, L. O. 5195
Rothacher, J. 4294
Rothermel, R. C. 266, 1534, 4049

Rothwell, R. L. 1266, 1271, 4677
Rouane, M. L. 711
Rouane, P. 1164
Roulund, H. 741, 2542, 3207
Rounds, R. C. 1765
Rousi, M. 6621
Roussopoulos, P. J. 1142, 6915
Roux, P. J. le 2517, 5571, 6070
Row, C. 966
Rowan, S. J. 385, 1196, 4913, 5516, 5952, 6464, 7178
Rowe, D. C. F. 6405
Rowe, S. 6949
Rowell, C. E. 1721
Rowell, R. M. 5572
Rowntree, R. A. 920
Rowse, L. A. 5526
Roy, B. K. 1938
Roy, R. D. 5146
Roy, S. 5469
Roy, S. K. 7041
Royama, T. 3560
Rozek, T. 861
Rozenberg, G. S. 2460, 4611
Rozhdestvenskiĭ, Yu. F. 4102
Rozsnyay, Z. 7375
Ruark, G. A. 5769
Rubchevskaya, L. P. 4082, 5829
Rubens, J. M. 4351
Rubner, H. 6200
Rudall, P. J. 6945
Rudawska, M. 363
Rudd, J. 4671
Rudd, V. E. 1579
Ruddle, K. R. 209
Rudich, D. 5905
Rudie, R. J. 1136
Rudin, D. 333, 1604, 1605, 7080
Rudinsky, J. A. 5410
Rudis, V. A. 7037
Rudjiman 5476
Rudloff, E. von 6661
Rudolph, T. D. 1601, 2253
Ruehle, J. L. 375, 4846, 5516, 7133, 7141, 7325
Ruetz, W. F. 5190, 5586
Ruf, G. 4301
Ruffer, H. 2476
Rüffler, R. 2477
Ruge, G. 3186
Ruissen, J. 7312
Ruiz, A. 472
Ruiz de la Torre, J. 5900
Ruiz, M. E. 472
Rummery, R. A. 1799, 1813, 1814, 1817
Rummukainen, U. 6935
Rundel, P. W. 4791
Runyon, K. L. 4554
Ruokonen, M. 6199
Rupaïs, A. A. 3584
Rupérez, A. 3259, 3262, 5343
Rupérez, [A.] 5387
Ruprich, J. 2850
Rusakova, V. B. 7067
Rusalenko, A. I. 4566
Rusanovich, I. I. 688, 4109, 5874
Rüsch, W. 47, 2669
Rushforth, K. D. 7022
Russel, P. R. 1866
Russell, B. 6355
Russell, E. W. 6072
Russell, K. W. 3125
Russell, R. 5528
Russell, R. M. 3645
Russo, P. S. 1646
Rustagi, K. P. 3311
Rustridge, J. W. 1987
Ruth, D. S. 1673, 5397
Ruth, R. H. 3963
Rutherford, J. 4876
Rutherford, M. C. 2756
Rutkovskiĭ, I. V. 4089
Rutkowski, B. 2682, 3321
Rutschmann, M. 3665
Rutter, A. J. 666, 3382
Rütze, M. 2896, 4895
Ryan, F. L. 1145
Ryan, L. C. 6305
Ryan, P. A. 3740, 6630
Ryan, P. W. 5276
Ryan, R. B. 3641, 4222, 4265
Rychetnik, J. 3040
Ryker, L. C. 5410
Ryker, R. A. 2561, 5155
Rykowski, K. 381, 1632, 2273
Rypáček, V. 2891
Rypák, M. 6401
Ryu, T. K. 6451
Ryuko, H. 6284
Ryynänen, L. 4097
Ryynänen, S. 6351
Rzedowski, J. 2244
Saarilahti, M. 6782
Saastamoinen, O. 6254
Sabariah, A. 6418, 7182
Sabato, S. 2180, 2790
Sabhasri, S. 2404
Sabnis, S. D. 5832
Sabo, D. G. 5599
Sabo, E. D. 4673
Saborowski, J. 6689
Sachan, R. S. 6822, 6828
Sachert, E. 6232
Sachsse, H. 6891, 6895, 6897
Sackett, S. S. 270, 4748, 5268
Sacksteder, C. J. 489
Sader, S. A. 1729
Sadreika, V. 4483, 5169
Sæther, R. 2074
Safarov, I. S. 4413
Safford, L. O. 3317
Safranyik, L. 843, 2355, 3556, 5408, 6018, 6189, 6190
Safronova, G. P. 4484
Sagl, W. 2699, 3184
Sagreiya, K. P. 4333, 4390
Saharia, G. S. 6991
Saho, H. 4908, 6183, 6185
Sahota, T. S. 826
Saif, S. R. 4859
Saiki, H. 3409, 6962, 6966
St. John, H. 2787
St. John, T. V. 1190
Saito, A. 2551, 3203, 3204, 4429, 4433
Saito, H. 3356, 4589, 5723, 6739
Saito, K. 4711, 6457
Sajwan, S. S. 6049
Sakagami, Y. 6180
Sakai, A. 6181
Sakai, K. I. 2188, 6183
Sakai, M. 7203
Sakai, T. 3832
Saksena, S. B. 3544, 5368
Sakura, T. 4811
Salakari, M. 6369
Salas, G. de las 299, 458
Salazar, D. J. 6201
Salazar, W. 5752
Salem, B. B. 1265, 1340, 6276
Salenave, J. F. 1402
Säll, H. O. 1864
Salleh Mohd Nor 6165
Salm, B. 3045
Salmi, J. 6679
Salminen, R. 692
Salminen, S. 6263, 6264, 6265
Salo, D. 526
Salo, D. J. 2720
Salonen, K. 1371
Salonius, F. C. 6857
Salonius, P. O. 1372, 1485, 4447, 5153
Šály, R. 2837, 6818
Sambeek, J. W. van 4241
Samingan, M. T. 1595
Samoĭlenko, V. K. 4007
Samoĭlova, T. S. 6082
Samoshkin, E. N. 4088
Sampò, A. 801
Sampson, G. R. 2520, 4263, 5558
Samraj, P. 5665
Samsonova, V. P. 4025
Samuelson, G. A. 2343, 4985
Samuelson, K. R. 331
Sanada, E. 6838
Sanada, M. 6838
Sandberg, A. M. 2726
Sandberg, D. V. 4045, 4057, 5804, 5805, 5806
Sander, I. L. 2264, 2265, 4493
Sanders, C. J. 413, 817, 2952, 3640, 4220, 4959, 5991, 5995
Sandhu, H. S. 1858
Sandhu, S. S. 2599, 5633
Sando, R. W. 4746
Sandor, J. A. 3301
Sands, A. 3030
Sands, D. C. 2291
Sands, R. 3722, 3740, 5243
Sandusky, J. 7316
Sandvik, M. 558
Sanfelippo, R. 1840
Sangster, A. G. 5820
Sani, A. 1860
Sanktjohanser, L. 6475
Sannikov, Yu. G. 4022
Santamour, F. S., Jr. 534, 745, 1345, 1642, 6118, 6119, 7004
Santantonio, D. 1586
Santiago, A. 1862
Santisuk, T. 4126
Santos, G. de A. 4691
Santos, G. P. 2994
Santos, H. R. 3879
Santos, M. N. 3259
Santos, M. S. M. 3266
Santos, P. F. 3063
Santoso, E. 3510
Saouma, E. 5574
Saplaco, S. 1855
Sapundzhieva, K. 552, 2986
Saramäki, J. 3838, 6441
Sareen, T. S. 5328
Sarin, S. 5469
Sarkanen, K. V. 1911, 5572
Sárkány, L. 5647
Sarrailh, J. M. 3065
Sarrazin, R. 7280
Sarruge, J. R. 3368
Sartz, R. S. 1772
Sasakawa, M. 3627
Sasakawa, T. 3627
Sasaki, S. 1355, 2170, 4787, 6165, 6181
Sasaki, T. 6199
Sasanuma, T. 6180
Sassa, T. 6180
Sassaman, R. W. 476, 477, 2058, 2403, 3964, 3990, 4669
Sato, H. 6437
Sato, K. 2382
Sato, M. 6400
Satoh, S. 6187
Satoo, T. 6360
Sattar, M. A. 2483
Satyamurthi, K. R. 1091, 5746
Saucier, J. R. 5226
Sauer, J. D. 3058
Sauer-Stegmann, A. 5926
Saul, T. 5152
Saunders, P. R. 3309
Sautin, V. I. 3912
Sautter, G. 2490
Sauvageot, A. 89
Savchenko, A. I. 654
Savchuk, R. I. 5143
Savel'eva, L. S. 3679
Saviello, T. B. 1992
Savin, N. E. 3645
Savvin, I. M. 5956
Sawitzki, G. 3712
Sawtell, N. L. 38
Saxena, A. 7314
Saxena, A. K. 3544, 5368
Saxena, R. C. 3712
Sayn-Wittgenstein, L. 3979
Scace, R. C. 4316
Scamoni, A. 3101
Scanlan, M. J. 7037
Scaramuzzi, G. 78, 3260, 3262, 5135
Scarf, E. 6302
Scarratt, J. B. 1015, 5918
Schaafsma, A. H. 5202
Schaber, B. D. 4211
Schachler, G. 2785
Schade, J. 3329
Schädler, B. 912
Schäfer, H. 4381, 6804
Schallau, C. H. 1101, 3777
Schär, E. 6130, 7389
Scharfetter, H. 6201
Scharpf, R. F. 3895, 5366
Schaudinischky, L. H. 6902
Schauer, M. 3712
Schauer, W. 2855
Scheele, G. 3037, 7297
Scheepens, P. C. 2603, 6547
Scheffer, R. J. 4899, 5350, 7173
Scheifele, M. 63
Scherrer, H. U. 2068
Scherzinger, W. 1249
Schieler, K. 2730
Schier, G. A. 996, 4431, 4432, 4795, 5312
Schiller, G. 6719, 6902
Schindlbeck, W. 3813, 6988
Schink, B. 3548
Schipper, A. L., Jr. 4920
Schizawa, H. 6188
Schlaegel, B. E. 189, 5520, 6691
Schlaghamersky, A. C. 2601, 6644
Schlarbaum, S. E. 5935
Schlenker, G. 1630
Schlesinger, R. C. 1315, 1511
Schlesinger, W. H. 3947
Schlessmann, H. 7365
Schlieter, J. A. 2026
Schlipf, U. 6666
Schlosser, I. J. 7292
Schlüter, J. 4311
Schlüter, U. 3712
Schlyter, F. 1225
Schmaltz, N. J. 2461
Schmautz, H. 6666
Schmeling, W. K. B von 3902
Schmid, J. M. 844, 1717, 2017, 3602, 4973, 4975, 5002, 6016
Schmidt, A. 1445
Schmidt, B. 4359
Schmidt, E. N. 6983
Schmidt-Haas, P. 6166, 6167
Schmidt, J. A. 2082
Schmidt, J. S. 3338
Schmidt, L. J. 3998
Schmidt, R. A. 2902, 4907
Schmidt-Vogt, H. 2811, 6615
Schmidt, W. 1817, 3394
Schmidt, W. C. 2082, 4049, 5279
Schmidtling, R. C. 2786
Schmiedel, H. 6232
Schmiege, D. C. 6068
Schmithüsen, F. 1905
Schmitt, M. D. C. 3317, 3946
Schmitt, W. E. 6480
Schmitz, G. 6582
Schmitz, R. F. 3557, 3571
Schmutterer, H. 3712
Schmutzenhofer, H. 435, 6188, 6189
Schnaider, Z. 1130, 3376
Schnaiderowa, J. 1244
Schneck, H. 2548, 2554
Schneeberger, N. F. 862
Schneider, G. 1034
Schneider, H. J. 2592
Schneider, J. C. 4963
Schneider, M. L. 1702
Schneider, R. 1411
Schober, R. 591
Schoeneweiss, D. F. 392, 7378
Schoenike, R. E. 5589
Scholl, M. 526
Scholz, E. 2564, 2862
Scholz, F. 2308, 4187, 6880
Schön, B. 2703
Schönau, A. P. G. 1052, 1126, 1979, 2094, 3262, 5836
Schönborn, A. von 5856
Schönborn, H. J. 2785
Schönhar, S. 2779, 4879, 5964, 5978, 7163
Schönherr, J. 3267, 3563, 3586

Schooley, H. O. 2316, 2336, 3562, 3593, 4411, 4953
Schoolfield, R. M. 2959
Schoonhoven, L. M. 3712
Schopf, R. 849, 855, 5413
Schorer, D. 6234
Schotte, L. 5086
Schotveld, A. 2439
Schouwer, H. De 265
Schowalter, T. D. 4244, 4252
Schrader, S. 6194, 6199
Schreeck, D. 6079
Schreiber, A. 5084
Schreiber, L. R. 5351
Schreiber, P. 7272
Schreiner, D. S. 2060
Schrepfer, S. R. 3096
Schretzenmayr, M. 1300
Schreuder, H. T. 1868, 2060, 3310, 3320, 3971, 3975, 4984, 5249
Schröder, W. 7277
Schroeder, G. 6232
Schroeder, H. 488
Schroeder, J. G. 4570
Schroeter, E. 6340
Schröter, H. 5843
Schubert, G. H. 5902
Schubert, J. F. 698
Schubert, K. R. 3493
Schubert, T. H. 5078
Schuck, H. J. 4096, 5848
Schuder, D. L. 414
Schuler, A. 499, 6200
Schuler, A. T. 3302
Schüler, G. 2877
Schultz, R. C. 752, 1620
Schultze, U. 3464
Schulz, W. D. 3712
Schulze, K. 6553
Schumaker, G. A. 3005
Schuman, G. E. 7327
Schuster, A. 388
Schuster, E. G. 1317
Schütt, P. 1565, 5840, 5846, 5859, 7008
Schütz, J. P. 565
Schütz, P. R. 7018
Schütze, M. 2476
Schvester, D. 4389
Schwab, J. L. 1847, 1848, 1849
Schwab, S. 4860
Schwabe, W. W. 6242
Schwaiger, H. 5773
Schwarz, W. 899
Schwarzenbach, F. H. 6356
Schweger, C. 1527
Schweingruber, F. H. 6130, 7389
Schweitzer, D. L. 3301
Schwember, H. E. 1909
Schwenke, W. 5984, 7239
Schwerdtfeger, F. 7124
Schwill, U. 3328
Schwintzer, C. R. 760
Scifres, C. J. 2607
Scott, A. 2270
Scott, A. J. 6781
Scott, C. A. 4663, 4664
Scott, C. T. 3313
Scott, D. R. M. 2005, 2152, 3114
Scott, D. W. 2942
Scott, J. F. 3436
Scott, R. V. 2494
Scott, S. L. 6899
Scott, V. E. 1261
Scotter, G. W. 1527
Scoullar, K. A. 3742
Scowcroft, P. G. 1350, 1974, 3819
Scriber, J. M. 3617, 5999
Scrinzi, G. 5694
Scriven, G. T. 412
Scurti, J. C. 4853
Seabrook, R. G. 5198
Searcy, J. L. 2955
Searcy, S. W. 5195
Sebire, R. A. 4398, 4399, 4400
Sedell, J. 5327
Sedell, J. R. 3030
Sedjo, R. A. 951, 952, 956
Sedransk, J. 3310
See, T. E. 5267
Seeber, G. 4803
Seegrist, D. W. 3310
Seekinger, G. R. 26
Segaran, S. 6216, 6378, 6379, 6380, 6381, 6382, 6419, 6515, 6516, 6517, 6722, 7104
Segebaden, G. von 62, 324
Segerström, G. 6480
Sehgal, C. B. 6427
Seibt, G. 6187
Seidel, K. W. 3856, 3857, 3889, 3898, 3952
Seif el Din, A. G. 1288
Seifert, R. 4763
Seillac, P. 550
Seip, H. M. 6867
Seitschek, O. 3684, 5841
Sekawin, M. 3260, 3476
Sekiguti, T. 627, 628
Sekretareva, N. A. 4132
Seliga, T. A. 4716
Seliskar, C. E. 5378
Sellers, R. E. 5800
Seltzer, E. 5736
Selvaraj, P. 5592
Selvaraj, R. 6146
Sembdner, G. 2160
Semenova, G. P. 1562
Sen-Sarma, P. K. 796, 3589, 4193, 4935
Sendak, P. E. 3320
Sène, E. H. 1284
Sengele, N. 6073
Sengoku, T. 6705
Senn, R. A. 4579
Sennblad, G. 45
Senoo, T. 6778
Seppälä, H. 6254
Sepponen, P. 6820
Sepúlveda B., J. I. 4641, 4642
Sepúlveda Betancourt, J. I. 4641, 4642
Sequeira, M. P. da S. de 786
Serafimovski, A. 5401
Serikov, Yu. M. 204
Serikoy, Yu. M. 6476
Serova, L. F. 4485
Serre, F. 6128
Serwaty, L. 6229
Seshadri, V. S. 1659
Sessions, J. 966
Seth, V. K. 523, 1103
Severson, K. E. 721, 878, 1263
Sevola, Y. 6804
Sevrin, R. 5542
Seymour, F. C. 2793
Seymour, N. 537
Shabaev, Yu. V. 4673
Shafiq, Y. 542
Shah, G. L. 4129, 4819, 5324
Shah, J. J. 2771, 6986
Shain, L. 1660
Shamsul Bahrin, Tunku 1855
Shankarnarayan, K. A. 1061
Shao, P. X. 1203
Shao, Q. H. 6610, 7354
Shao Yu Hua 4861
Shapiro, E. B. 4785
Shapiro, M. 3596, 3597
Sharaya, L. S. 3495
Shargal, P. K. 6428
Sharma, A. D. 2871
Sharma, B. P. 6186
Sharma, D. C. 1458, 2043
Sharma, G. D. 4858, 4868, 5335
Sharma, G. K. 3712
Sharma, I. K. 5983
Sharma, J. K. 361, 3545, 6188
Sharma, K. C. 1059
Sharma, K. K. 1011, 1920, 2880
Sharma, L. C. 2504, 6274
Sharma, M. 2313, 6991
Sharma, M. R. 4867, 4869, 4870, 5381
Sharma, R. B. 6822, 6828
Sharma, R. P. 1067, 1334
Sharma, R. S. 1069
Sharma, S. D. 6826
Sharma, Y. N. 6970
Sharpe, D. M. 7037, 7345
Sharyĭ, M. A. 3864
Shaw, C. G. 1633, 2970
Shaw, C. G., III 772, 1632, 2276, 4845, 4885, 4886
Shaw, D. L., Jr. 3317
Shaw, D. V. 5922
Shaw, K. J. 2284
Shaw, L. J. 2123
Shaw, L. N. 5201
Shaw, M. W. 1877, 6244
Shchankin, N. I. 6471
Shchepilov, V. G. 5460
Shcherbakov, I. P. 4818
Shcherbatyuk, A. S. 6996
Shchurevich, A. A. 1403
Shea, G. M. 4426, 4533
Shea, P. J. 3649, 4274
Shea, S. R. 383, 452, 1640, 2284, 2885, 6909
Shearer, B. L. 2885
Shearer, M. N. 2561
Shearer, R. C. 3855, 6191
Shebeko, V. V. 4770, 4771, 6938
Shechter, M. 1301
Sheedy, G. 199, 5157, 5158, 5164, 5403, 6723
Sheffield, R. M. 5033
Sheichenko, V. I. 2773
Sheikh, M. I. 1932, 2416, 2418, 5482, 5595, 5611, 5636
Shelbourne, C. J. A. 735
Shelby, B. 7368
Sheldon, S. 4564
Shelton, M. G. 4004
Shelyag-Sosonko, Yu. R. 2235
Shemberg, M. A. 356, 3474
Shen, H. H. 1604
Shen, K. 4449
Sheng, J. Y. 1203
Shepard, R. K. 4446
Shepard, R. K., Jr. 6445
Shepherd, J. D. 2788
Shepherd, K. R. 42, 559, 4514, 6275
Shepherd, P. J. 361
Shepherd, R. F. 3126, 3565, 4997, 5991, 6044
Shepperd, W. D. 2719, 2721, 3199, 4682
Shergill, M. S. 788
Sheridan, J. E. 4918
Sherrard, D. L. 6516, 6517
Sherwood, S. C. 3552
Shestakova, V. A. 3955
Shetty, H. R. 4618
Shetty, K. A. B. 4847
Shetye, R. P. 1857
Shevchenko, S. V. 7123
Shevchenko, V. S. 5364
Shew, H. D. 2286
Shi, F. Z. 3594
Shibata, E. 4232, 4968
Shibata, M. 6182
Shibata, N. 6966
Shibayashi, T. 6212
Shida, H. 2640
Shidei, T. 5723
Shieh, J. C. 6650, 6981, 6987
Shields, W. J., Jr. 2238
Shifley, S. R. 3311
Shigo, A. L. 1159, 1204, 1549, 1633, 1635, 2260, 2897, 3703, 5347, 5527, 5797, 5940, 5955, 6655, 7156
Shih, C. F. 6606
Shiibayashi, T. 6214
Shim, J. W. 4992, 4993
Shimada, M. 5302
Shimaji, K. 4783
Shimanskiĭ, P. S. 3018, 6433
Shimazu, M. 6185
Shimizu, A. 2646
Shimizu, J. Y. 351
Shimotori, S. 6284
Shimuzu, T. 3966
Shin, H. D. 6186
Shinn, D. A. 2755
Shinohara, T. 3164
Shio, T. 5294
Shiokura, T. 5220
Shiozaki, M. 6830
Shipchanov, I. 4714
Shipota, Z. P. 5059
Shiraishi, T. 6185, 7250
Shiryaeva, G. A. 574
Shiyatov, S. G. 7391
Shiyomi, M. 6189
Shkantova, N. G. 5830
Shkarednyĭ, S. I. 425
Shlapakov, P. I. 4540
Shleĭnis, R. I. 6900
Shnepste, M. P. 69
Shoemaker, R. A. 2918
Shôji, T. 5975
Shôji, Y. 6961
Shoo, E. M. 6634
Shore, T. L. 6191
Shortle, W. C. 2260, 2281, 5940
Shoshin, V. I. 651
Shoulders, E. 5522
Shoup, S. 1047, 1170
Shrimpton, D. M. 4195
Shrivastava, M. B. 644
Shropshire, F. W. 190, 5249
Shtina, E. A. 646
Shugart, H. H. 3424, 3425
Shugart, H. H., Jr. 3656, 3924, 5526
Shukla, R. P. 2545
Shulemetova, L. I. 1562
Shul'gina, G. G. 1562
Shulyakovskaya, T. A. 4094
Shumakov, V. S. 4452
Shumway, J. S. 5257
Shuttleworth, W. J. 5265, 5458
Shvidenko, A. Z. 5693
Shyapyatene, Ya. A. 4644
Shyerstnyev, N. V. 364
Sibul', R. A. 2089, 4025
Sickle, C. Van 3306
Sickle, G. A. van 1208, 1670, 1709
Sidahmed, A. E. 5018
Siddaramaiah, A. L. 1637, 2307, 2879
Siddig, S. A. 3712
Siddiqui, K. M. 5583
Siddiqui, M. S. 1859
Sidhu, S. S. 3059
Sidikou, A. H. 2490
Sidorov, A. I. 5676
Sieber, K. P. 3712
Siebert, H. 3237, 3471, 7118
Siegel, W. C. 1137
Sieghardt, M. 1010, 1375
Siemon, G. R. 2000, 4720
Siemon, J. R. 530
Siems, E. 3103
Siepmann, F. 5657
Siepmann, R. 380, 690, 1631, 2877
Sierota, Z. 1033
Sierpiński, Z. 707, 2163, 2683, 2834
Sierra, C. 2713
Sievert, R. 7384
Siew, Y. C. 1857
Signorini, M. de P. 6963
Sikes, D. A. 1493
Sikkel, D. 1887
Sikora, B. 3344
Silfverberg, H. 833
Silim, S. 1280, 2418
Silva, F. A. e 3262
Silva, L. L. da 1929
Silva, M. 4851
Silva, N. M. F. da 2178
Silva, R. F. 3262
Silverborg, S. B. 4172
Silversides, C. R. 1427, 6474
Silversides, R. H. 5238
Silverstein, R. M. 428
Simak, M. 3834, 6397, 6933
Simard, A. J. 1140, 1146, 1147, 1148, 1149
Simberloff, D. 2326
Simeray, J. 1176
Simmons, C. S. 7060
Simmons, D. 5672
Simmons, G. 1716

Simmons, I. G. 4118, 6135
Simmons, J. 2453
Simon, H. 5473
Simon, K. H. 3033
Simón, M. 2713
Simón Navarrete, E. de 6476
Simonenko, A. P. 651
Simonov, I. N. 2162
Simonsen, D. 6897
Simonsen, V. 7096
Simovich, M. A. 272
Simpson, J. A. 2918, 3737
Simpson, J. D. 6411
Simpson, J. M. 3030
Simpson, R. W. 4006
Simpson, S. J. 2166
Sims, P. L. 1790
Sims, R. A. 4131
Simula, A. L. 68
Sinadskii, Y. V. 364
Sinclair, W. A. 1837, 2292, 7151
Singer, M. J. 2088
Singh, A. 898, 2418, 2645, 6199
Singh, A. K. 2645, 4295, 5052
Singh, B. 1011, 1920, 2711, 6186
Singh, B. P. 2638
Singh, D. E. 254
Singh, D. P. 6974
Singh, G. 6905
Singh, G. K. S. 6100
Singh, J. 3416, 5777
Singh, J. S. 5775
Singh, K. 6049
Singh, K. D. 229, 4636, 6167
Singh, M. D. 898
Singh, P. 1632, 1955
Singh, P. K. 7041
Singh, R. P. 1076
Singh, R. V. 5469
Singh, S. 762, 4164, 7190
Singh, S. J. 3540, 3542
Singh, S. K. 4139
Singh, S. P. 1068, 1075, 1077, 1087, 1088, 2018, 2054, 2647
Singh, T. 1266
Singh, V. 5325
Singhal, R. M. 6826
Sinha, A. K. 3282
Sinha, R. 6186
Sioli, H. 1858
Sirakov, Kh. 116
Sirén, G. 70, 83
Sireń, G. 1864
Sirén, G. 3804
Siriez, H. 4941
Sirven, P. 5116
Siryk, A. A. 6846
Sissingh, G. 7055
Siswantoyo 5474
Sita, G. L. 4151, 6430
Sitaraman, S. 5469
Sitnikova, T. A. 4067
Sivakumar, J. 1860
Sivarajan, M. 2938
Sivasithamparam, K. 5340
Siwecki, R. 359, 360, 363, 366, 2921, 3519, 3541
Skaar, R. 6480
Skachkov, V. I. 6090
Skeates, D. A. 3194, 5170
Skeen, J. N. 5523
Skelly, J. M. 2282, 2887
Skillen, J. 1812
Skilling, D. D. 4172, 7147
Skinner, G. J. 7242, 7243, 7244
Skirvin, R. M. 24
Skjenneberg, S. 4284
Sklyar, V. I. 6599
Skolmen, R. G. 3233
Škopek, V. 7337
Skouri, M. 943
Skovlin, J. 4278
Skrenek, J. M. 1527
Skripanev, S. F. 5056
Skrzypczyńska, M. 3583
Skugravy, V. 4213
Skuhravý, V. 1691, 4213
Sladek, S. 2328
Slangen, L. H. G. 6784
Slatyer, R. O. 6907
Slepyan, É. I. 1725
Slick, B. M. 7318
Slings, Q. L. 1887
Śliwa, E. 1211, 1704, 3616, 7214
Sloboda, B. 6166, 6689
Slobodyan, Ya. N. 6443
Słomka, J. 3344
Sluder, E. R. 4414
Slyadnev, A. P. 4451
Smail, P. W. 6306
Small, D. 6240
Smalley, E. B. 6193
Smalley, G. W. 5240
Smardon, R. C. 4332
Smart, A. W. 3910
Smart, G. C., Jr. 3257
Smart, J. B. 5091
Smelyanets, V. P. 2315
Smerlis, E. 2304, 2305, 2306, 2893, 4248
Smertin, E. M. 6091
Smethurst, P. J. 3740
Smirnoff, W. A. 4946, 7252
Smirnov, A. M. 4092
Smirnov, I. A. 4066
Smirnov, K. A. 4287, 5441
Smirnov, N. A. 3851
Smirnov, S. P. 4544
Smith, A. D. M. 41
Smith, B. N. P. 2410, 2440
Smith, C. C. 1485, 3276
Smith, D. E. 1635
Smith, D. M. 1608
Smith, D. R. 2553, 6181
Smith, E. M. 930
Smith, F. M. 1531
Smith, F. W. 2152
Smith, G. 6250, 7290
Smith, H. C. 122, 6721
Smith, H. G. 4046
Smith, I. 2747
Smith, I. W. 3503
Smith, J. A. 1097, 3327
Smith, J. E. 5696
Smith, J. H. G. 1157, 1322, 2005, 2418, 3135, 3291, 5747
Smith, J. L. 4300
Smith, J. P. 2047, 3005
Smith, K. L. 2292
Smith, K. T. 2281
Smith, L. 3278, 4877, 5405
Smith, L. D. J. 5340
Smith, L. J. 546
Smith, M. 6185
Smith, M. H. 3389
Smith, N. J. 2005
Smith, R. 4847
Smith, R. A. 5336
Smith, R. B. 2156, 3320, 6496, 6497
Smith, R. F. 3833
Smith, R. H. 4253, 5921
Smith, T. D. 1866
Smith, V. G. 1456
Smith, W. A. 4472
Smith, W. B. 3311, 3746, 3983, 5559, 5730
Smith, W. D. 7316
Smith, W. H. 259, 260, 261, 262, 981
Smitinand, T. 4126
Smolander, H. 692
Smolyak, L. P. 4566
Smolyak, Y. L. 1631
Smol'yaninov, I. I. 4117, 6442
Smol'yanov, A. N. 213, 4614
Smyth, J. H. 3845, 7363
Smythe, N. 1252
Snell, J. A. K. 4577, 5218, 5745
Sneva, F. A. 4527
Snider, G. B. 6289
Snow, G. 5969
Snow, G. A. 2902, 3516, 5971
Snowdon, P. 3213, 3730, 3741
Snyder, E. B. 2786
Soares, R. V. 676
Sobchak, R. 2487
Sobinov, A. M. 4424
Söderström, B. E. 2226
Soedjito, H. 1169
Soepadmo, E. 1852
Soerianegara, I. 3884
Soest, J. van 591
Soewito 6480
Sohi, S. S. 4262
Sohlenius, B. 2213, 2226
Sohn, R. F. 3490
Sokolov, V. 943
Sokolova, E. A. 4112
Sokołowski, A. 4991
Sokołowski, A. W. 4816
Solar Energy Research Institute 4410
Solberg, B. 2074
Solberg, K. H. 2566, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577
Sole, E. Del 5360
Sollins, P. 2391, 4371, 6829
Solomatin, V. M. 418
Solomon, A. M. 3426
Solomon, D. S. 1684, 3313, 6605
Solomon, J. A. 3426
Solomon, J. D. 185, 807, 5992
Solomon, M. G. 1187
Solymos, R. 2622, 6587
Somappa, K. 1054
Sombroek, W. G. 1499
Somda, B. 2907
Somerville, A. 2702, 6808
Sommer, H. E. 3209, 6420
Sommers, W. T. 630, 631, 4680
Sonderman, D. L. 6681
Sone, K. 4261
Song, Y. H. 5414, 5415
Song, Y. Z. 5994
Soni, K. K. 3498
Soni, P. 1040, 4528
Sonnenfeld, J. A. 5560
Sonnleitner, G. 979
Soo, N. P. 6848
Sood, R. 3831
Soothill, E. 4114
Soper, R. S. 5988
Sorensen, F. C. 4427, 4838, 7110
Sørensen, K. W. 6259
Sorg, J. P. 6366
Sosebee, R. E. 2777
Sougnez-Remy, S. 3148
Sournia, G. 6286
South Africa, Dendrological Society 5871
South Africa, Regional Commission for the Conservation and Utilization of the Soil 2509
South, D. B. 3488, 3847, 6455
South, P. M. 6308
Southward, G. M. 2556
Southwood, T. R. E. 5383
Souza, A. F. R. de 2178
Sower, L. L. 3610, 5991
Space, J. C. 1866
Spada, B. 6202
Spahlinger, D. 1105, 2084
Spalding, D. E. 1883
Sparks, R. C. 4142, 4146
Spatz, G. 5012
Spear, R. N. 3514
Spears, J. S. 1820, 6194
Specht, R. L. 2111, 5725, 6908
Speechly, H. 6375
Speechly, H. T. 7216
Speer, J. 6162
Speich, A. P. 505
Speidel, G. 2078, 3180
Speight, M. R. 4260, 7216
Speir, J. A. 4027
Spelter, H. 6316
Spencer, D. 6294
Spencer, R. 4355
Sperber, G. 1249, 4539
Sperlich, U. 4380
Sperry, J. S. 5290, 5292
Spies, C. J., III 1732
Spies, T. A. 5938
Spink, L. R. 4046
Spirin, D. A. 4686
Spiss, R. 3161
Spława-Neyman, S. 5263
Sprackling, J. A. 307
Spradbery, J. P. 851
Sprangers, J. T. C. M. 729
Spruijt, A. P. 2434
Spurgeon, D. 478, 479, 480, 481, 482, 483
Spurr, S. H. 6160
Spychala, M. 3541
Squiers, E. R. 2642, 2643
Squillace, A. E. 3830, 4422, 7100
Squire, R. H. 3320
Squire, R. O. 3736
Srimathi, R. A. 2173, 3477, 4152, 6398
Srivastava, A. K. 254
Srivastava, B. P. 479, 5469
Srivastava, D. C. 588
Srivastava, P. B. L. 1458, 1860, 2043, 3826
Srivastava, Y. S. 3417
Šrot, M. 7218
Ssorin, V. A. 4608
Staaf, H. 1497, 1503, 2216, 2221, 2222, 2230
Stackerud, M. 871
Stadlmann, H. 1907, 3792
Stadnik, A. P. 5464
Stadnitskiĭ, G. V. 441
Staffeldt, E. E. 3064
Stagl, W. G. 6060, 6367
Stahel, J. 6270
Ståhl, E. 342
Stahr, K. 1113
Staichenko, N. I. 1631
Staines, B. W. 1883
Stamenković, V. 6170
Stamou, N. 6362
Stanek, W. 7060, 7061, 7068
Stankey, G. H. 2433, 3095, 4339, 6195
Stankovski, B. 4463
Stanley-Jackson, D. B. H. 6305
Stansfield, K. 1835
Starchenko, I. I. 4117
Starck, M. 1159
Stark, B. A. 3320
Stark, N. 1260, 2723, 5800
Stark, N. M. 2723
Stark, R. W. 3614, 4945, 6189, 6190, 6191
Starke, J. 5089
Starkey, D. 5361
Starysh, M. N. 6599
Starzyk, J. R. 793
State, D. 7068
Statistical Office of the European Communities 1893
Stauffer, A. J. 969
Stauffer, M. L. 3332
Staveren, J. M. van 2407
Stead, J. W. 3460
Steane, J. 2468
Stearns, F. 7037
Stebakova, V. N. 3852
Steck, W. F. 802
Stednick, J. D. 5277
Steele, M. J. 1834
Steele, R. C. 6241
Steele, R. W. 2752, 5800
Steen, H. K. 6200
Steenackers, R. 2006
Stefancik, L. 6597
Steffens, R. 3099
Steiguer, J. E. de 1902, 2459, 3780, 6785
Stein, A. 725
Stein, A. G. 725
Stein, J. D. 2929, 4972
Stein, W. I. 121, 557, 1952
Steinbeck, K. 71, 1864
Steinbrenner, E. C. 1866, 3139
Steiner, J. 2008
Steiner, K. C. 2740
Steinhilb, H. M. 3928, 5719
Steinhoff, R. J. 1918, 4906
Steinlin, H. 5068, 6473
Stellingwerf, D. A. 6198

Stephan, B. R. 2308, 2877, 4187
Stephan, G. 1443, 6619, 6656
Stephen, F. 6189
Stephen, F. M. 412, 840, 2955
Stephens, C. G. 1973
Stephens, G. R. 1685, 2934
Sterba, H. 1084, 2479
Stern, R. 3044
Stern, R. C. 6240
Stern, W. L. 6952
Sterner, T. E. 4971
Stettler, R. F. 2005, 5936
Steuer, R. E. 3302
Steuter, A. A. 3019
Steven, D. de 2344
Stevens, C. D. 758
Stevens, P. A. 6836
Stevens, R. 2176
Stevens, R. E. 792, 808, 838, 2341, 4973, 4974, 6191
Stevenson, G. R. 5081
Stevenson, K. J. 1644
Steward, R. E. 142
Stewart, G. A. 530
Stewart, G. H. 3441
Stewart, H. T. L. 3727, 5244
Stewart, J. L. 1556, 3306
Stewart, R. E. 120, 142, 1954, 6362, 6475
Stewart, R. K. 2358, 3600, 3605, 4210
Stewart, W. L. 1764
Steyermark, J. A. 1567
Stickney, P. F. 1597
Stiegler, J. H. 3006
Stiell, W. M. 1427, 2617, 2618, 6601
Stiff, C. T. 5519
Still, G. N. 1675
Still, S. M. 31, 115
Stimart, D. P. 1360
Stipes, R. J. 774, 3478, 7146
Stires, J. L. 2053
Stock, M. W. 3564, 7202
Stöcker, G. 2855
Stocker, G. C. 2182, 6908
Stocks, B. J. 1143, 4030, 4040, 4736
Stockstad, D. S. 4741
Stoffler, H. D. 1422
Stohlgren, T. J. 7366
Stöhr, G. W. D. 2597
Stöhr, H. P. 1063
Stokes, R. A. 1267
Stolařik, R. 4405
Stolina, M. 2812
Stoll, P. 3899
Stolyarchuk, L. V. 3391
Stone, D. M. 1030, 3585
Stone, E. C. 2232, 7360
Stone, E. L. 4005, 5786
Stone, R. N. 1866
Storey, T. G. 4043
Storozhenko, V. G. 5957
Story, D. R. 1071
Stoszek, K. J. 1708
Stott, K. G. 75, 6244
Stottlemyer, J. R. 916
Stout, J. D. 4689
Stoyanov, N. 116
Stoyanov, Zh. 4016
Straby, A. G. 7147
Strahler, A. H. 3336, 3979
Straka, W. F. 1315
Strakhov, V. V. 7217
Stralendorff, L. von 4526
Strand, R. F. 2005
Strand, R. H. 2109
Strandgaard, S. 6390
Strang, R. M. 2802, 3979, 6912
Strange, J. D. 2072, 2419
Stransky, J. J. 5526, 5643
Stratmann, W. 3394
Straub, R. J. 2131
Strauch, D. 4459
Streatfield, G. 524
Streeter, S. S. 3432
Strehlke, B. 6480
Strey, R. G. 5825
Strickland, R. C. 4715
Strickler, G. S. 4276, 5437
Stridsberg, E. 1323, 1324, 1325
Strittmatter, W. 1419, 3160
Stritzke, J. F. 1038, 3006
Strobel, G. A. 2291
Strobel, T. 3039
Strochinskiĭ, A. A. 5693
Strock, G. N. 7316
Stroempl, G. 5439
Strojan, C. L. 3357
Stromberg, L. L. 7371
Strømnes, R. 6476
Stromquist, L. 6074
Strong, T. F. 2506
Strothmann, R. O. 3870, 3872
Stroyanaya, S. A. 900
Strub, M. R. 3319, 5519
Struchtemeyer, R. A. 556
Struckmann, E. 6554
Struik, H. 1427
Strullu, D. G. 2269, 7129
Strunina, T. F. 4508
Struve, D. K. 23, 6424
Strzelecki, W. 6362
Stuart, W. B. 3799, 5196
Stubbings, J. A. 1052, 3262
Stubblefield, G. 2005
Stubbs, H. A. 1712
Stubbs, J. 4525
Stüber, H. 6553
Stuck, R. D. 3311
Stucki, B. 2393
Studach, J. 979
Stuiver, M. 226, 3432
Stummer, G. 1420
Stupendick, J. T. 559
Sturaro, G. 5759
Sturgeon, K. B. 7102
Sturges, D. L. 1782
Sturion, J. A. 117
Styles, B. T. 2796
Stypiński, P. 1434
Su, Q. M. 3492
Su, S. D. 3543
Subba Rao, B. K. 1777
Subbarao, M. 3551
Subramanian, D. 6146, 6158
Subudhi, B. P. R. 6453
Suckling, D. M. 420
Suckling, G. C. 7286
Sudachkova, N. E. 1562, 5301
Sudo, S. 6861
Suelong, H. 3511
Sugawara, S. 2186, 2187, 6548
Sugden, A. M. 4828, 4829
Suggs, C. W. 5200
Sugiho, K. 6609
Suharti, M. 3510
Suijdendorp, H. 6908
Sujan Singh 765, 4884, 5951
Sukardjo, S. 4017
Sukhanova, I. V. 4697
Sulkinoja, M. 5866
Sullivan, A. D. 446, 3319, 4612, 4631, 4632, 6690
Sullivan, A. L. 7037
Sullivan, C. R. 4264
Sullivan, T. P. 540, 2377
Sultan, S. M. 6242
Sumantri, I. 6480
Sumardi 5475
Sumardja, E. A. 3781
Summerville, K. O. 1367
Summerville, R. 4780
Sun, G. X. 2255
Sun, L. H. 5994
Sun, S. H. 3486
Sunakawa, S. 3230, 3231, 3232
Sundaram, A. 1756, 5427
Sundaram, K. M. S. 1756, 1757, 4270, 5427
Sundarsivarao, B. 1550
Sundberg, U. 6473
Sundström, K. B. 2197
Suner, A. 6498
Supron, Yu. P. 1440
Surana, N. M. 6152
Suri, R. K. 762, 2707
Susott, R. A. 4742, 6917
Süssmann, W. 2390
Sutherland, B. J. 5200
Sutherland, J. B. 384
Sutherland, J. R. 1627, 1930, 2541
Sutlive, V. H., Jr. 6100
Sutton, B. C. 3529, 4929
Sutton, R. C. 4035
Sutton, R. F. 136, 687, 1023, 2002, 4520
Sutton, W. J. 3585, 4372
Suzuki, E. 4498, 5913
Suzuki, M. 3029, 5457
Suzuki, S. 1215
Suzuki, T. 2656, 6166
Svaldi, R. 4900
Svatkovskaya, T. V. 438
Svensson, J. 2197
Sviderskaya, I. V. 3705
Švihra, P. 2963, 4235, 4947, 6013
Svolba, J. 5926, 7103
Swai, I. S. 4915
Swaigen, J. 3775, 6112
Swailem, S. M. 3587
Swain, A. M. 4814
Swain, T. 225
Swaine, M. D. 1592, 3420
Swaleh, M. 1056
Swan, H. S. D. 4445
Swank, W. T. 1587, 3606
Swanson, F. 5327
Swanson, F. J. 1587
Swanson, F. T. 3030
Swanson, R. H. 1266
Swanson, W. 3750, 3797
Swanston, D. N. 3678, 6064
Swart, H. J. 39
Swartström, J. 65, 66
Swartzman, G. L. 4371
Swarup, R. 5469
Sweden, Board of Rescue and Fire Services 4725
Sweden, Delegationen för Energiforskning 4409
Sweden, Föreningen Skogsträdsförädling, Institutet för Skogsförbättring 743
Sweden, Forskningsstiftelsen Skogsarbeten 296
Sweet, G. B. 6181
Swenson, C. L. 1866
Świeżyńska, H. 1244, 3616
Swift, M. J. 1634, 1856
Swindel, B. F. 4874, 5017, 5696, 7302
Switzer, G. L. 4004
Sydnor, T. D. 32
Sykes, J. M. 1877
Sylvester, W. A. 579, 3315
Sylvestre-Guinot, G. 2908
Sylvia, D. M. 7151
Syme, G. J. 1807
Syme, P. D. 848, 1676, 2945, 4203
Synge, A. H. M. 1297
Synge, H. 1297
Sypko, G. S. 6454
Szabó, S. 6009
Szaro, R. C. 7265
Szczęsny, P. 1006, 3352
Szczotka, K. 2650
Szczubiałka, Z. 1127, 1522
Szentiványi, P. 5377
Szeto, S. 1757, 4270
Sziklai, O. 1353, 5917, 7098
Szmidt, A. 1704, 2683
Szonyi, S. 4735
Szukiel, E. 5039, 6367
Szweykowski, J. 7089
Szymański, S. 1395
Taba, K. 3230
Tabacchi, G. 5694, 5701
Tabata, K. 5008, 5009, 6193
Tabbush, P. M. 6540
Tacey, W. H. 906
Tacon, F. le 2266, 7130
Tagawa, H. 7042
Tagestad, A. 2328
Tagestad, A. D. 2329, 2929
Tagil'tsev, Yu. G. 3280
Tahakur, M. L. 3589
Tahama, Y. 398
Tahkur, J. R. 1218
Tahri, T. 88
Tai, A. 4989
Tai, F. F. 6732
Tai, K. Y. 6160
Tainter, F. H. 5353
Taipale, J. 6602
Tait, D. A. 1093
Tajchman, S. J. 3337
Takagi, T. 6181
Takahashi, I. 6183
Takahashi, K. 3435, 6181
Takahashi, T. 376
Takai, M. 2319, 6034
Takai, S. 1644
Takaki, T. 4076
Takalo, S. 143
Takata, K. 4588
Takata, O. 7307
Takeda, A. 5824
Takeoka, M. 4589, 6422, 7043
Takeuchi, I. 2449, 5658
Takeuchi, K. 4604, 4605
Talbert, J. T. 1367, 4143
Talbot, J. J. 3750, 3797
Tallantire, P. A. 5882, 5883, 5884, 7039
Tallqvist, R. 3815
Talpasayi, E. R. S. 6145
Talsma, T. 3717
Talts, J. 6765
Talvitie, J. 3325
Tamm, C. O. 2843
Tamura, H. 4983
Tan, E. S. P. 1858
Tan, F. 7150
Tan Koonlin 211
Tan, Z. M. 6421
Tanaka, F. 2744, 4076
Tanaka, K. 6187
Tanaka, Y. 3130
Tande, G. F. 1527
Tandon, R. D. 1156
Tandon, S. 3418
Tandon, V. N. 1458
Tandug, E. T. 4099
Tang, F. 2272
Tang, H. T. 1964, 2412
Tangren, C. D. 5276
Tani, M. 5457
Tanton, M. T. 6907
Tappeiner, J. C., II 5648
Tarafder, P. 4150
Taras, M. A. 604, 5215
Tarasenko, I. M. 806
Tarasov, A. I. 7364
Tarasova, Zh. G. 750, 1625
Targonski, P. N. 3911
Taris, B. 361, 364, 393, 3259
Tarkhova, T. N. 730
Tarrant, R. F. 2005, 3146
Tarvasmäki, P. 7352
Tashkov, K. K. 2487
Tate, R. L. 2153
Tatsuno, Y. 7308
Tatsuyama, K. 6879
Tattar, T. A. 4147, 5769
Tauer, C. G. 652, 1038
Tausch, R. J. 2239
Tavares, M. J. 3262
Tavares Marques, L. C. 1916
Tayaa, M. 2104
Tayama, H. K. 22
Taylor, C. A. 3003
Taylor, D. 3395
Taylor, D. A. H. 2796
Taylor, F. 5196
Taylor, F. W. 6580
Taylor, I. E. P. 1927, 1947
Taylor, J. B. 386
Teasdale, J. B. 4724
Tedder, P. L. 3303, 3338, 3995, 6477
Teeguarden, D. E. 2425, 5094
Tehe, G. H. 6363
Teich, A. H. 322
Teigen, O. 5787
Teissier du Cros, E. 1429
Teivainen, T. 7274, 7275, 7276
Tejwani, K. G. 6075
Telang, S. A. 2387
Telfer, E. S. 2418
Telishevskiĭ, D. A. 1062
Temmerman, L. O. De 265
Tendam, I. M. 3330

Tendron, G. 506
Tennent, R. B. 2662
Tenow, O. 697, 2214, 2215
Teoh, S. K. 2714
Terada, M. 2766, 3406
Teratani, F. 6989
Terent'eva, E. N. 5241
Terho, E. 2935, 4951
Terinov, N. I. 146
Terry, T. A. 5196
Tersch, F. 7353
Terskov, I. A. 3705
Tesar, V. 6187
Tesch, S. D. 232, 2806
Tesche, M. 2848, 5083, 6871
Teskey, R. O. 633
Tetlow, R. J. 4348
Tewari, R. N. 5469
Tewari, S. N. 7296
Thaina, S. 5121
Thaiutsa, B. 6165
Thakur, M. L. 796, 5389
Thakur, R. K. 4950
Thalen, D. C. P. 3009
Thallon, K. P. 3314, 3315, 6239
Tham, C. K. 3461
Thames, J. L. 2416
Thatcher, R. C. 4945
Theander, O. 2223, 7085
Theodorou, C. 377, 3740, 5246
Theron, M. J. 6201
Theroux, L. J. 2332, 3641
Théry, D. 5119, 5120
Thiault, M. 1588
Thilenius, J. F. 721
Thill, A. 2007, 2651, 2658, 3287
Thill, R. E. 5198
Thinon, M. 4695
Thirgood, J. V. 454, 455, 1886, 6366
Thite, A. N. 3536
Thojib, A. 5479
Thom, R. H. 3309
Thomas, A. le 287
Thomas, A. W. 815
Thomas, B. R. 3377
Thomas, C. A. 5203
Thomas, C. E. 5519
Thomas, D. L. 5378
Thomas, H. A. 5522
Thomas, J. 298
Thomas, J. B. 1209, 6698
Thomas, J. D. 5526
Thomas, J. F. 1806
Thomas, J. W. 3020, 6052, 6054, 6055
Thomas, L. 5002
Thomas, L. K., Jr. 7036
Thomas, R. W. 3320
Thomasius, H. 1425, 1487, 2810, 5630
Thompson, C. F. 6538
Thompson, C. G. 2942
Thompson, C. H. 3426, 3716, 3740, 3742
Thompson, J. R. 407
Thompson, K. 284
Thompson, K. W. 3030
Thompson, R. A. 5155
Thompson, R. P. 57, 2129
Thompson, S. 4063, 6458
Thompson, W. A. 2324
Thomsen, J. 2501
Thomson, A. J. 826
Thomson, A. P. 6305
Thomson, J. S. 5179
Thomson, N. J. 3168
Thor, E. C. 973, 4332, 5528
Thorne, I. D. P. 6246
Thornes, J. B. 6073
Thorpe, T. A. 1934, 3209, 6420
Thresh, J. M. 1187
Thresher, P. 7269
Throssell, T. 2065, 4638
Thrower, S. L. 4804
Thrupp, A. 1874
Thum, J. 7048
Thunberg, J. 1906, 6678
Thurber, J. 5672
Thurmes, J. F. 4674
Thurston, L. 887
Tian, S. 5354
Tibbits, W. N. 3364
Tiberi, R. 3598
Tibilov, A. A. 2162
Tichý, V. 1741
Tiernan, C. F. J. 6191
Tigerstedt, P. 1605
Tigerstedt, P. M. A. 7084
Tihanyi, Z. 1405
Tiihonen, P. 6261
Tikhomirov, F. A. 2735
Tikhomirova, G. V. 6975
Tikhonov, A. S. 882, 5037
Tikhov, P. V. 3362
Tilden, P. E. 428, 1712, 4947
Tilley, F. B. 4302
Tillman, D. A. 1911, 5572
Tilman, J. 1134, 3217
Timakova, N. S. 4392
Timmer, V. R. 1949
Timmermann, H. R. 5503
Timmis, R. 133, 3124
Timmons, G. M. 3619
Timpte, W. 3969
Tinnin, R. O. 2927, 5382
Tinsley, T. W. 2937
Tinus, R. W. 1384, 2561, 3223, 5195, 7141
Tippett, J. T. 1549, 2897, 7156
Tipton, J. L. 13
Tira, S. 5837
Tisseverasinghe, A. E. K. 1387
Tissot, C. 5896
Titus, S. J. 1319, 3320, 3972, 4663
Tiwari, B. K. 379, 4868
Tiwari, D. P. 4921
Tiwari, K. P. 523
Tiwari, S. K. 788
Tkachenko, A. N. 4088
Toan, T. le 2070
Tocci, A. 2882, 5920
Tocci, A. V. 2180
Toda, Y. 4144
Todd, J. E. 3306
Todd, N. K. 1639
Todd, R. L. 3606
Todhunter, M. N. 2252
Todorov, D. 6743
Toes, E. H. A. 2276
Toews, D. A. A. 447
Togashi, K. 5005
Toit, A. J. du 1074
Tokár, F. 6372, 7112
Tokuhisa, E. 1723
Tokuoka, M. 3206
Toliver, J. R. 4142, 4146
Tollan, A. 6867, 6868
Tölle, H. 6434
Tolsted, D. N. 1940
Tomanić, S. 6477
Tomar, O. S. 6542
Tomaselli, R. 3162, 3346
Tomback, D. F. 5310
Tominaga, Y. 376
Tomita, K. 6185
Tomkins, W. 3278, 5384
Tomlin, C. D. 3303, 3798
Tomlinson, P. B. 222, 224
Tomm, H. O. 2376
Tommaso, P. L. di 2763, 5818
Tomonaga, G. 6192
Tomov, T. 552
Tompa, K. 5917
Tompson, J. G. 2873
Tomyuk, B. P. 5863
Tong, B. Q. 2296, 2297
Tong, D. C. 1203
Tonn, J. R. 112, 4613
Tørå, G. D. 1999
Toratari, Y. 6879
Torchik, M. V. 2321
Torgersen, T. R. 3612
Török, K. 5796
Torokhtun, I. M. 5463
Torondy, K. 5626
Torres, F. 482
Torres-Kermel, D. 5118
Toskov, N. 552
Tóth, G. 6009
Toth, J. 6847
Totsuka, T. 2732
Tournon, G. 6541
Toussaint, A. 2648
Toutain, F. 641
Touzet, G. 3265
Tovar, D. Cibrián 841
Towler, R. W. 6244
Townley-Smith, L. J. 264
Townsend, A. M. 257, 1600, 2861, 6884
Townsend, D. M. 6923
Townsend, R. F. 2722
Townsend, S. 387
Townshend, J. R. G. 245
Toyooka, H. 2186, 2187, 6548
Toyoshima, J. 7284
Tozzi, M. 4853
Trabaud, L. 1588, 4033
Tracey, J. G. 1851
Traimond, B. 5544
Tramer, E. J. 1315
Trân Châu, L. 6198
Tran van Nao 1340
Tranquillini, W. 3042
Trappe, J. M. 369, 373, 2005, 5949
Trask, A. B. 1187
Travis, M. 5529
Treĭmanis, A. P. 6889
Trenbath, B. R. 41
Trepp, W. 1967
Treshchevskiĭ, I. V. 903, 5061
Treskin, P. P. 2814, 2830
Tribe, T. 6186
Triebwasser, M. E. 2561, 3130
Triggiani, O. 4214, 4215
Trinh tri Sy 6893
Tripathi, S. D. 1862
Tripp, L. N. 5277
Triska, F. J. 1587
Trivedi, B. S. 6156
Troeh, F. R. 449
Troendle, C. A. 1452, 3668
Troeng, E. 702, 2204, 2216, 5305
Trofimov, V. N. 6004
Trofimova, O. V. 6004
Trostel, H. 6260
Trotman, I. G. 6302
Trowbridge, R. L. 6834
Troxell, J. K. 3312, 3320
Trunov, I. A. 6760
Truong dinh Phu 549
Tryon, T. C. 1866, 3317
Trzcińska, M. 1150
Tsai, J. H. 5378
Tsakov, Kh. 4610
Tsanov, Ts. I. 4068
Tsarik, I. V. 5910
Tschinkel, H. 581
Tsel'niker, Yu. L. 6997
Tsirkov, I. 552
Tsou, E. K. 7075
Tsu, H. H. 6160
Tsukada, M. 2803, 7038, 7044
Tsukama, K. 3232
Tsuneda, A. 2906
Tsurik, E. I. 3288, 5692
Tsuru, S. 6284
Tsutsui, M. 6200
Tsutsumi, T. 4506
Tsvetkov, V. F. 3853, 4576
Tsyganenko, L. G. 6599
Tsyplakov, V. V. 6529
Tsze, K. M. 3742
Tucker, R. 6200
Tueller, P. T. 2239
Tufts, R. A. 5672
Tuganov, S. R. 2321
Tuinzing, W. D. J. 587
Tukey, H. B., Jr. 20, 27
Tuley, G. 3264, 6242, 6250, 6503
Tumlinson, J. H. 5992
Tunningley, M. W. 3740
Tunnock, S. 1695, 1696, 1697
Tunstall, B. R. 3426
Tuomi, J. 7213
Tuomi, S. 6351
Turchetti, T. 3532, 3533, 5342, 7175
Turkowski, F. J. 7267
Turman, D. 3318
Turnbull, C. R. A. 2780
Turnbull, J. W. 5555, 6374
Turnbull, K. J. 1457
Turner, A. K. 894
Turner, B. J. 3302
Turner, F. B. 3357
Turner, G. 1736
Turner, J. 2005, 3496, 3535, 3734
Turner, R. E. 3444
Turner, R. M. 3030
Turrel, M. 6847
Turton, A. G. 655
Turvey, N. D. 1120, 1121, 3740
Tuset, J. J. 175
Tutein Nolthenius, C. 1887
Tuteja, S. C. 5325
Tuteja, W. 1131
Tutygin, G. S. 4464
Twum-Barima, K. 6100
Tyagi, V. K. 5781
Tyepkema, J. D. 4676
Tyszka, J. 3670
Tyufekchiev, A. 5443
Tyukavkina, N. A. 2773
Tyurin, E. G. 4494
Tzschacksch, O. 6371
Tzschöckel, D. 5187
Tzschupke, W. 3254, 3328
Uchimura, E. 6182
Uebel, E. 6435
Uebel, E. C. 3712
Ueda, T. 6185
Ueno, Y. 4647, 4648, 4649
Uggla, E. 4059
Uhlig, S. K. 5365, 7180
UK, Aberdeen University Forestry Society 6250
UK, British Library 972
UK, British Standards Institution 3711
UK, Commonwealth Agricultural Bureaux 681, 682
UK, Commonwealth Bureau of Pastures and Field Crops 679, 680, 683, 879
UK, Commonwealth Institute of Entomology 870
UK, Her Majesty's Government 61, 3776
UK, House of Lords 3767
UK, Institute of Hydrology 895
UK, Joint Liaison Committee on Plant Supplies 1401
UK, Land Resources Development Centre 5092
UK, Royal Institution of Chartered Surveyors 3682
Ulbricht, R. 2661
Ulliman, J. J. 3314, 3985, 6774
Ullrich, J. R. 4347
Ullrich, T. 1300
Ulrich, B. 2112, 2113, 2840, 3354, 3379, 5853, 6079, 6856, 6883, 7005, 7034
Ul'yanov, V. I. 3929, 5216
Umali, R. 2686
Umbach, D. M. 4718
Underhill, E. W. 802
Unestam, T. 4857
Ung, C. H. 3618
United Nations 6344
United Nations Educational, Scientific and Cultural Organization 2490, 2853, 3442, 3443, 5232
United Nations Environment Programme 7072
Uniyal, K. 5951
Unruh, T. R. 6001
Uozumi, Y. 3962
Upadhyay, R. K. 395, 1658, 4924
Uppal, S. 5328
Uppin, S. F. 1054
Upton, C. W. 6250
Uranova, T. A. 935
Urbán, L. 2395
Urban, L. V. 1825
Urbston, D. F. 7279

Uresk, D. W. 6046
Urness, P. J. 3002
Urošević, B. 763
USA, American Society for Horticultural Science 1306
USA, American Society of Agricultural Engineers 5193
USA, Bio-Energy Council 1863
USA, Coniferous Forest Biome Modeling Group, University of Washington 4370
USA, Council on Environmental Quality 3149, 3150
USA, Department of Agriculture 858
USA, Department of Energy 4410
USA, Department of Natural Resources, Wisconsin 1768
USA, Department of State 3149, 3150
USA, East-West Environment and Policy Institute 501
USA, Extension Service University of Vermont 6113
USA, Forest Service 450, 520, 884, 1795, 1796, 1797, 1798, 2561, 3698, 4373
USA, Lincoln Institute of Land Policy 967
USA, Northeastern Forest Experiment Station 7316
USA, Office of Technology Assessment 978
USA, Southeastern Area, State and Private Forestry 179
USA, World Bank 5067
Uščuplić, M. 1628, 1632, 4865, 6188
Usher, J. H. 3306
Usher, R. W. 2734, 5795
Usova, D. A. 145
Uspenskiĭ, V. V. 1448
Usui, H. 7052
Utkin, A. I. 4594
Utschick, H. 5753
Utsuki, Y. 6284
Utsunomiya, F. 6192
Utten, J. 1441
Utz, K. 180
Utz, K. A. 180
Uusitalo, M. 3342, 3766
Uusvaara, O. 6709
Uvarov, L. A. 5784
Uys, H. J. E. 617
Uzielli, L. 160, 5826, 6570
Vaganov, E. A. 3705
Vahle, D. 7306
Vaidyanathan, C. S. 6430
Vail, C. W. 1292
Väisänen, L. 5828
Vaishampayan, N. 6970
Vaishnawa, G. R. 6152
Vakshasya, R. K. 4840, 7115
Vakulin, A. A. 4519
Valanne, T. 5590, 5608, 5866
Valbuena, R. R. 58
Valdenaire, J. M. 2266
Valente, M. da C. 2178
Valente, O. F. 2445
Valentine, F. A. 316, 2895, 3702
Valentine, H. T. 1721
Valéro, J. R. 7252
Valette, J. C. 5815, 6555, 6556, 6558, 6561
Vallée, G. 200, 1181, 6446
Valley, K. 1677
Valonen, P. 6709
Vance, D. L. 1527, 5239
Vanderwaeren, G. 265
Vanhanen, H. 6343
Vankatesan, K. R. 4152
Vannacci, G. 2913
Vannella, S. 3473
Vanpraet, C. L. 917
Vanselow 1351
VanSickle, C. 3309
Vanstone, D. E. 2452
VanVeldhuizen, R. M. 5173
Varaksina, T. N. 1562
Varela, F. 3266
Varfolomeev, V. E. 4544
Varma, R. 7049
Varma, R. V. 4949
Varmah, J. C. 5378, 5580
Varney, E. H. 5378
Varty, I. W. 815, 1758, 3651
Vasechko, G. I. 2960
Vasenkov, G. I. 5057
Vasievich, J. M. 3305, 6787
Vasil'ev, N. D. 5165
Vasil'ev, V. N. 290
Vasil'eva, N. P. 4309
Vasil'eva, N. V. 5789
Vasiliauskas, A. 1631
Vas'kov, E. L. 2350, 5003
Vásquez-Yanes, C. 3427
Vassiliev, V. N. 290
Vattimo, I. de 1571, 1573, 1590, 1591
Vaucamps, F. 7051
Vavra, M. 3004, 4278
Vayda, A. P. 943
Vázquez Torres, M. 2790
Veblen, T. T. 3441
Vedernikov, N. M. 4466, 6454
Veeman, T. S. 4365
Veen, J. A. van 6353
Vega, L. 466
Vegh, I. 768
Veilleux, J. M. 5156, 6523
Veiman Quinn, C. S. 6752
Vekshegonov, V. Ya. 6092
Velasco, A. B. 1860, 6201
Velasco, F. 5771
Velchev, V. I. 7067
Veldeman, R. 364
Vélez Angel, R. 3576
Velling, P. 3807, 6901
Velloso, A. C. X. 4691
Velloso, J. M. 1875
Venables, R. 6250
Venator, C. R. 5516
Venkatesan, K. R. 3477, 5341
Venkatesh, C. S. 3449, 4840, 6201, 6395
Venn, K. 561, 562
Vennetier, P. 5103, 5117
Ventilä, M. 692
Verbin, A. E. 6840
Verblen, T. T. 3438
Verdier, Y. 5544
Verghese, S. 1494, 5256
Verkade, S. D. 3211
Verloren van Themaat, R. 1979
Verma, S. C. 4950
Verma, T. D. 1218
Verma, V. P. S. 762
Verma, V. S. 7190
Verry, E. S. 1178
Verschuren, J. 4280
Versfeld, D. B. 2091, 7295
Vershal', V. V. 5297
Versteegh, P. J. D. 3316
Vertinsky, I. B. 2324
Verzunov, A. I. 4507
Vesecký, J. 5468
Veselinović, N. 1631
Vesikallio, H. 2417, 5199
Vetrova, E. V. 4887
Viart, M. 3259, 3265
Vicente, C. 691
Vickson, R. G. 6922
Victor, M. A. M. 3264, 6366
Vidal, M. R. R. 1553
Vidal, W. N. 2175
Vidali, E. 6636, 7194
Vidano, C. 5390
Vidrich, V. 5623, 6979, 6984, 6985
Vidyakin, A. N. 7076
Vieghofer, L. 7031
Vieitez, E. 6180
Viennot-Bourgin, G. 7128
Viereck, L. 5173
Viereck, L. A. 1389, 3427, 4047, 4763, 4821
Vigier, P. 5541
Vijayakumar, N. 3551
Vijendrarao, R. 1550
Vik, T. 6478
Vila, W. M. 3264
Villa-Salas, A. B. 2414
Villa Salas, A. B. 2414, 2528
Villemant, C. 3590
Vilmorin, R. de 5878
Vincent, G. 5621
Vincent, P. J. 4376
Vine, M. H. 7106
Vines, R. G. 6906
Vinšová, M. 1950
Virtanen, J. 6440
Viswanathan, M. 1942
Vita, F. 5911, 5912, 7046
Vité, J. P. 2348, 6015
Vitousek, P. 4708
Vitousek, P. M. 660, 3428, 4015
Vladut, R. 5007
Vlasenko, V. I. 2190
Vlcek, J. 2069
Vodak, M. C. 3300
Vogel, O. 258
Vogel, W. G. 7322
Vogelsang, H. 1444
Vogl, R. J. 5800
Vogt, D. J. 3740
Vogt, K. A. 2030, 3740, 4848
Voĭchal', P. I. 6399, 6406
Voigt, W. G. 2930, 5404
Voiry, H. 3489
Volchkov, V. E. 3912
Volck, H. E. 3168
Volckmann, W. 6581
Vol'f, V. V. 4561
Volger, C. 1631, 1634
Volgmann, W. 3107
Volk, H. 5068
Volkov, F. I. 4067, 5073
Voll, S. P. 1055
Vollenweider, C. 1894
Volná, M. 2825
Volpini, C. 6266
Volz, H. 6324
Voraurai, P. 2404
Vories, K. C. 1383, 1790
Vorob'ev, V. N. 4100, 4101, 5867
Vorob'eva, N. A. 5867
Vorobyov, G. I. 6182
Voron, V. P. 6873
Voronkov, N. A. 6845
Voropanov, P. V. 602, 5720
Vorwohl, G. 590
Vostokova, E. A. 1596
Voysey, J. C. 6240
Voznesenskiĭ, V. L. 2161
Vries, M. P. C. de 5154
Vrkoč, J. 4213
Vrkoch, Ya. 4212, 4213
Vučković, M. 6170
Vuokila, Y. 6254
Vvedenskiĭ, E. M. 5452
Vyarbila, V. V. 6900
Vyse, A. 1078
Vyshivkin, D. D. 1596
Vyskot, M. 2816, 3317
Vysotskiĭ, A. A. 5329
Wade, D. D. 5517
Wagar, J. A. 487, 2671
Waggener, T. R. 2005
Waggoner, P. E. 4910
Wagle, R. F. 4747
Wagn, O. 1631
Wagner, C. E. van 1427, 4757, 5807, 7359
Wagner, F. 4683, 5842
Wagner, M. R. 1724
Wagner, T. L. 2959, 4229, 4236, 5406
Wagner, W. 6553
Wagner, W. L. 1569
Wagtendonk, J. van 4049
Wahlberg, A. O. 4460
Wahlgren, H. E. 941, 5098
Wahlgren, H. G. 84
Waide, J. B. 1587, 3606
Wainhouse, D. 6244
Wakabayashi, K. 6192
Wakabayashi, R. 3047, 3051
Waldbauer, G. P. 3712
Waldron, R. M. 5081
Waldschmidt, M. 7306
Walker, A. W. 1818
Walker, B. H. 3428
Walker, D. 4823
Walker, D. O. 6305
Walker, J. 3426, 3742, 6906
Walker, N. R. 3867, 5166
Walker, R. B. 4084
Walker, R. F. 5516
Walkinshaw, C. H. 3515, 3530
Walkotten, W. J. 1785
Walkup, R. H. 3134
Wall, E. 784
Wall, R. E. 1379, 1381, 4218
Walla, J. A. 4160
Wallace, B. J. 2182
Wallace, I. M. 2884
Wallace, J. S. 892
Wallace, W. L. 6295
Wallis, G. W. 412, 3125, 3500, 4162, 4342
Wallner, S. J. 7113
Walmsley, F. S. 6246
Walsh, L. G. 390
Walsh, N. 2116, 2117
Walsh, R. G. 6196
Walsted, J. D. 1039
Walter, M. 6754
Walters, G. A. 2563, 5219
Walters, J. 1437
Walters, R. S. 6655
Walton, L. 3591
Wan Razali, M. 2062, 5697
Wang, B. S. P. 322, 5144, 6412
Wang, H. Y. 2258
Wang, M. 5594
Wang, P. J. 2249
Wang, Q. Z. 7114
Wang, S. F. 6987
Wang, T. T. 6606
Wang, T. Z. 7121
Wang, X. M. 2107
Wang, Y. Y. 3492
Wang, Z. P. 6376
Wang, Z. X. 7114
Waraitch, K. S. 4881
Warcup, J. H. 3719, 6907
Ward, C. H. 453
Ward, F. R. 2679, 2680, 2681, 5804, 5805, 5806
Ward, J. C. 3548
Ward, J. D. 1703
Ward, J. F. 1786
Ward, L. K. 1883
Ward, S. C. 3740
Wardenier, H. J. 6094
Wardle, P. 1177, 1341
Wardle, P. A. 6239
Ware, G. H. 929
Ware, K. D. 3317
Warg, A. 3931
Waring, H. D. 3213, 3729, 3741
Waring, R. H. 1463, 1584, 1585, 1586, 1587, 2156
Warkotsch, P. W. 6475
Warner, R. E. 4635
Warrack, G. C. 1045
Warren, J. 5270
Warren, J. R. 5239
Warren, L. E. 3885, 3886
Warren, S. D. 1866
Warren, S. L. 4699
Warren, W. G. 3310, 6166, 6197, 6198
Warrington, I. J. 632, 2085
Warrington, S. J. 3491
Warthen, J. D., Jr. 3712
Washburn, J. O. 4258
Washburn, R. I. 4273
Wass, E. F. 6496, 6497
Wästerland, I. 1616
Watanabe, H. 6192
Watanabe, I. 6453
Watanabe, K. 7108
Watanabe, M. 2765
Watanabe, T. 6162
Waterman, S. J. 3140
Waters, W. E. 4942
Watkins, C. 1332, 6245, 6246
Watling, R. 2888
Watson, A. 3677
Watson, A. P. 6335

Watson, G. A. 7346
Watson, M. E. 18, 115
Watt, R. F. 4493
Watterson, G. P. 5409
Watterston, K. G. 432
Watts, H. M. 378
Waugh, J. R. 6302
Wciślińska, B. 993
Weatherby, J. C. 7215
Weatherly, H. G. 1954
Weatherston, J. 4976
Weaver, G. H. 5195, 5197
Weaver, G. T. 1315, 6995
Webb, D. B. 3197
Webb, D. P. 135, 2367
Webb, L. J. 1851
Webb, R. S. 2282, 2887, 4874, 5606
Webb, T. H. 2086
Webb, W. L. 820
Webber, B. D. 4013
Webber, J. 2892
Weber, B. C. 1207
Weber, E. 5856
Weber, F. P. 6770
Weber, F. R. 3061
Weber, J. C. 5936
Weber, M. G. 3373
Webster, S. R. 3142
Weckwerth, H. 1410
Wedler, E. 3979
Wee, Y. C. 2171
Weetman, G. F. 2414, 2818, 5173, 5561
Wegener, H. J. 5087
Wegwitz, E. 1670, 7184
Wehrlen, L. 1409, 6559
Weidelt, H. J. 4803
Weidenbach, P. 1419, 2059, 3247, 4380
Weidner, H. 1680
Weihe, J. 2022
Weihrauch, B. 2672
Weiler, M. 7305
Weimann, H. J. 2653, 2692, 2696, 3920, 4311, 5533, 5754, 6059, 6219, 6792
Weimann, H. V. 4670
Weimhoff, J. R. 4124
Wein, R. W. 4759
Weinberger, P. 3821, 5007
Weingartner, D. H. 1036, 5493, 5508
Weintraub, A. 3303
Weinzierl, W. 6095
Weis, G. B. 5012
Weise, O. R. 7305
Weiser, F. 6232
Weisgerber, H. 3465, 7070
Weiss, H. 5897
Weiss, M. 6232
Weissen, F. 1971, 2538, 3210
Weissenberg, K. von 1630, 3506
Weist, C. 3983
Weist, C. A. 3746
Welbourn, M. L. 4005
Welch, D. 1883
Welch, R. C. 1883
Wellburn, G. V. 6475
Welle, B. J. H. ter 4778
Wellendorf, H. 1631, 7086, 7096
Wellington, W. G. 2324, 3556
Wells, C. G. 548, 4056
Wells, G. C. 5656
Wells, O. O. 7100
Wells, S. J. 6250
Welsh, D. A. 5504
Wencelius, F. 5140
Wencl, J. 1907
Wendling, W. 3180
Wenk, G. 6746
Wenninger, E. 6234
Wense, E. A. von der 6079
Wensel, L. C. 3320
Wenter, W. 1907
Wentzel, K. F. 258, 3378, 6187
Wenz, J. M. 3610
Werken, H. van de 924
Werner, A. 360, 363, 3519
Werner, M. 67, 334, 340, 744, 6678
Werner, R. A. 2950, 4976
Wert, S. 3377, 4455
Weseloh, R. M. 812, 6002
Wesley, D. E. 446
West, D. C. 1865, 3190, 3424, 3425, 3426, 3924, 5516
West, J. R. 6015
West, N. E. 2239
West, P. C. 5074
West, P. W. 612, 1922, 2033
West, S. D. 4286
Weste, G. 2890, 6190
Westerling, B. 4284
Westerling, S. 6753, 6754
Westfall, R. D. 2895, 3702
Westra, J. J. 2758
Wezenaar, J. A. 2437
Whaley, R. S. 3305
Whalley, D. 6114
Wharton, C. H. 3444
Wheeler, A. G., Jr. 1677
Wheeler, B. E. J. 3525
Wheeler, C. T. 370
Wheeler, L. 5522
Wheeler, P. T. 6245, 6246
Whelan, J. A. 1261
Whelan, R. J. 567
Whitaker, R. 1248
Whitcomb, B. L. 7037
Whitcomb, C. E. 1018, 1047, 1170, 1171, 1833, 2448
Whitcomb, R. F. 7037
White, C. 4228
White, C. S. 2090
White, E. H. 2185
White, E. J. 1878, 6713, 6714
White, E. W. 84
White, F. M. 3710
White, J. C. 226
White, J. D. 4231
White, L. P. 4591
White, M. B. E. 1239
White, P. S. 3428
White, R. W. R. 6304
White, W. B. 6773
White, Z. W. 967
Whitehead, D. 695, 2191
Whitehead, M. J. 925
Whitehorne, E. W. 1868
Whitesell, C. D. 2508
Whitfield, F. B. 2284
Whitford, W. G. 3063
Whitmore, J. L. 85, 941, 5098, 5927
Whitmore, T. C. 292, 3433, 4824
Whitney, H. S. 4195
Whitney, R. D. 1633, 3501, 5493, 5513
Whittaker, J. B. 7244
Whittaker, R. H. 3428
Whittington, M. S. 1322
Whittle, B. A. 34
Whyte, A. G. D. 276
Wiąckowski, S. 1222
Wiąckowski, S. K. 1678
Wiant, H. V., Jr. 616, 2666, 3317, 3749, 3974, 6725
Wiberg, C. 3091
Wibstad, K. 6474
Wibulswas, P. 5112, 5121
Wickens, G. E. 2411, 6934
Wicker, E. F. 2903, 3518
Wickman, B. E. 2942, 3607, 3613, 4156, 4221
Wickström, R. 5181, 6532, 6641
Widdowson, J. P. 378, 6450
Widerowa, S. 1130
Widin, K. D. 4920
Widmoyer, F. B. 19
Wie, D. van 4755
Wiebecke, C. 6293
Wiedemann, H. T. 3251
Wiersum, K. F. 1856, 5471, 5481, 6627
Wigston, D. L. 1019
Wijayakusumah, K. 479
Wiken, E. B. 7380
Wikstrom, J. H. 4625
Wilbur, W. D. 2279
Wilcke, K. 3791
Wilcox, M. D. 539, 746
Wildish, D. J. 5791
Wile, B. C. 1836, 2119, 5174, 6566
Wiley, A. T. 1136
Wiley, K. N. 3138, 3142
Wilgen, B. W. van 625, 5275, 6914, 6992
Wilhite, L. P. 139, 5517
Wilkening, A. J. 1672
Wilkes, J. 7167, 7168
Wilkins, R. M. 1986
Wilkinson, A. G. 1198
Wilkinson, G. 6227, 7040
Wilkinson, R. C. 423, 6014, 6024, 6025, 6183
Will, G. M. 551, 2558, 3738, 3741, 4011, 4012
Willatt, S. T. 5272
Willcocks, A. J. 3646
Willcox, N. A. 7271
Willhite, E. A. 3564
Williams, B. C. 3064
Williams, C. B., Jr. 4274, 5011
Williams, D. L. 3332
Williams, E. R. 3222, 3739
Williams, G. H. 1981
Williams, H. J. 3087
Williams, I. L. 1442, 5993
Williams, J. B. 38
Williams, J. G., Jr. 7279
Williams, M. R. W. 2075
Williams, P. 48
Williams, P. G. 4660
Williams, P. J. 1813
Williams, R. A. 149, 5522
Williams, R. D. 2539, 4469
Williams, R. E. 1478, 1626
Williams, T. E. 2561
Williams, T. I. 6141
Williams, T. M. 891
Williams, W. T. 5795
Williamson, G. B. 1542
Williamson, M. J. 5652
Williamson, R. L. 2652, 3129
Williamson, V. H. H. 5170, 6469
Williford, M. 1337, 5522
Willing, M. 5210, 5211, 5685
Willis, E. J. 4827
Willis, G. L. 4491
Wills, W. H. 764
Willson, R. B. 3302
Wilson, A. D. 1845
Wilson, B. D. 2005
Wilson, B. F. 4809
Wilson, C. L. 1194, 2288, 5378
Wilson, D. A. 6781
Wilson, G. 4335
Wilson, G. G. 1740, 2987, 3603, 4217, 4259
Wilson, J. 1264, 1881
Wilson, J. F. 5800
Wilson, L. 5987
Wilson, L. F. 1726
Wilson, M. R. 3555
Wilson, R. 4737
Wilson, R. A. 5270
Wilson, S. K. 620
Wilton, W. C. 4366
Winchester, P. L. 6246
Windhorst, H. W. 6718
Windsor, D. M. 1253
Winegar, H. 2370
Winger, P. V. 3444
Wingerd, D. E. 3974
Wingfield, M. J. 1638, 5968, 6029
Winkler, H. 1411
Winsauer, S. A. 3928, 5719
Winston, D. A. 1002, 1003, 1034, 3646, 3820
Winters, R. K. 6199
Winton, L. L. 2546
Wippermann, H. J. 6355
Wirén, A. 2224
Wirth, M. E. 1101
Wirtz, W. O., II 273
Wisbecke, C. 6927
Wise, P. K. 5254
Wiseman, A. C. 956
Wiśniewski, J. 1751, 4991
Witanachchi, J. P. 834
Witkowski, Z. 793
Witter, J. A. 6190, 6768
Wittwer, R. F. 3681, 3761
Wium-Andersen, S. 2144, 2145, 2146
Woessner, R. A. 4257
Wolanski, E. 5782
Wolf, C. H. 7323
Wolf, G. 6632
Wolf, R. E. 1322
Wolf, T. 3920
Wolf, W. 5653
Wolfe, J. L. 920
Wolff, J. O. 1389
Wolff, S. 5200
Wolfram, E. M. 852
Wołk, A. 1524
Wolters, G. L. 5438
Woltz, M. P. 711
Womersley, J. S. 7021
Won, J. S. 6665
Wong, H. R. 2953
Wong, J. 1753
Wong, J. T. S. 1771
Wong, K. M. 5822, 7009
Wong, M. 4140
Woo, J. Y. 2300
Woo, K. S. 4992, 4993
Wood, B. W. 536
Wood, D. B. 4750, 4752
Wood, D. L. 428, 829, 830, 864, 1712, 2993, 4947, 6190
Wood, G. B. 2000, 4720, 6762
Wood, G. W. 5028
Wood, H. A. 3596
Wood, H. B. 5046
Wood, I. M. 3168
Wood, J. 4912
Wood, M. 1093
Wood, P. J. 3196, 6242, 6250
Woodcock, C. E. 3336, 3979
Woods, F. W. 5523
Woods, K. D. 3428
Woods, P. V. 3739, 3740
Woods, R. F. 2049
Woods, R. V. 3740
Woollons, R. C. 3730
Worf, G. L. 5344
Workman, J. 6241
Worley, D. P. 1839, 5982
Wörndl, R. 6571
Worrell, R. 1488
Worsnop, G. 551
Wright, A. F. 6302
Wright, E. A. 6250
Wright, G. M. 2264
Wright, H. A. 1545, 2127, 2128, 3019
Wright, H. L. 5697
Wright, I. R. 5459
Wright, J. P. 1025
Wright, J. W. 308, 309, 314, 322
Wright, R. 1093
Wright, R. D. 5618
Wright, T. W. 6240
Wu, J. 2936
Wu, J. W. 868
Wu, P. 5369
Wu, Q. Y. 5426
Wu, Z. X. 5426
Wuolijoki, E. 6342
Wurdack, J. J. 4106
Wurz, R. 1333, 3161
Wutz, A. 4402
Wyk, G. van 1613
Wykoff, W. R. 2905
Wylie, F. R. 37, 38, 4794
Wynia, A. 4844, 6467
Wyst, G. Van der 601
Xiang, Y. 5354
Xiao, G. R. 2983
Xie, Q. M. 2936
Xydias, G. K. 5516
Xydias, K. 5197
Yachkaschi, A. 6282
Yachmenev, M. S. 6572
Yadav, J. S. P. 1791, 6542
Yadav, K. C. 5204
Yadav, S. S. 4129, 4819
Yagdyev, A. 2314, 2352

Yakaĭtis, B. Yu. 4237
Yakovlev, A. S. 4524, 5614
Yakovlev, G. V. 5660
Yakovleva, L. V. 4831
Yalçınkaya, E. B. 6476
Yamaguchi, H. 6034
Yamahata, K. 6686
Yamamori, N. 3230, 3231, 3232
Yamamoto, C. 6182, 6400
Yamamoto, K. 6968, 6969
Yamamoto, M. 6474
Yamamoto, S. 4506
Yamamoto, T. 6838
Yamamura, R. 7308, 7309
Yamane, A. 3566, 3630, 6185, 6190
Yamaoka, K. 2382, 2384
Yamasaki, E. 2646
Yamasaki, T. 2965
Yamashita, S. 6188
Yamaya, K. 6705
Yamazoe, G. 3264
Yambe, Y. 2100
Yan, J. J. 2983
Yanai, K. 6860
Yandle, D. 3312
Yandle, D. O. 616, 3320, 3749
Yang, B. Y. 7301
Yang, C. C. 7301
Yang, J. C. 2249, 5593
Yang, J. S. 6466
Yang, J. X. 1653
Yang, M. 5839
Yang, M. H. 868
Yang, P. L. 5691
Yang, R. C. 1451, 5499, 5747
Yang, Y. C. 5684, 5717
Yankyavichyus, K. K. 7391
Yanovskiĭ, L. N. 6695
Yao, N. Y. N. 2249, 2536, 2537
Yap, S. K. 282, 1356, 1852, 3816, 7013
Yarëma, G. S. 2456
Yarie, J. 2139, 5250
Yarmishko, V. T. 5629
Yasin, M. 5069
Yasue, M. 6183
Yasui, H. 6731
Yasuno, M. 4711
Yates, H. O., III 6189
Yates, M. G. 1883
Yates, N. L. 3
Yatsenko-Khmelevskiĭ, A. A. 574, 5297
Yau, D. P. 7377
Yavorsky, J. 6160
Yde-Andersen, A. 4863
Ye, Y. P. 3543
Yeadon, R. 647
Yeager, T. H. 5618
Yearian, W. C. 1245
Yeates, G. W. 4689
Yeatman, C. W. 1599, 1600
Yee, C. S. 6065
Yerke, T. B. 6199
Yim, K. B. 6184
Yin, F. M. 7255
Ying, S. L. 5380
Yingling, E. L. 923
Yingvansiri, T. 6165
Yli-Rekola, M. 6007
Yokobori, M. 6187
Yokota, H. 376
Yokota, S. 6185
Yokoyama, K. 6548
Yokoyama, S. 7011
Yokoyama, T. 6181
Yokozawa, Y. 6705
Yonker, J. W. 414
Yoo, J. W. 6749
Yora, K. 6188
Yoshida, M. 6284
Yoshida, N. 231
Yoshida, S. 3832
Yoshie, F. 6181
Yoshimoto, M. 5794
Yoshimura, K. 4783
Yoshino, S. 3028
Young, A. 2455
Young, C. 5167
Young, C. E. 933
Young, C. J. 5205
Young, G. A. 1140, 1148, 1149
Young, H. E. 1866, 3317
Young, I. 5167
Young, J. A. 2496
Young, J. F. 5522
Young, L. C. 411
Young, R. A. 1331
Youngberg, A. D. 1498
Youngberg, C. T. 6362
Youngblood, A. P. 4125
Yu, B. L. 997
Yu, F. C. 6084
Yu, S. W. 6667
Yuan, C. 1661
Yuan, C. F. 3492
Yuasa, Y. 6730
Yudina, O. S. 2161
Yukhimchuk, G. V. 4486
Yukutake, K. 6284
Yule, R. A. 4794
Yunus, M. 6937
Yurevich, S. I. 5819
Yurgenson, L. È. 6454
Yurukova, L. D. 7067
Yushkovskaya, K. L. 4561
Yussuf, H. 943
Zabala, N. Q. 3829, 3842
Ząbecki, W. 1720
Zabuga, G. A. 5307
Zabuga, V. F. 5307, 6996
Zadroga, F. 6073
Zaerr, J. B. 696, 1559, 1867, 2561, 3120, 3762, 6207, 6420
Zajac, S. 6201
Zakaria, I. 1357
Zaki, A. 479
Zalitis, P. P. 4705
Zalunardo, R. 5245
Zambakhidze, N. E. 5834
Zambonelli, A. 5488
Zamora, E. 2417
Zamora, M. D. 6100
Zamski, E. 5823
Zander, J. 976
Zang, L. 4866
Zanúncio, J. C. 2994
Zapesochnaya, G. G. 2773
Zarger, T. G. 7317
Zaripov, I. N. 6031
Zarnovican, R. 2044, 2045, 3945
Zarzycki, S. 2698
Zasada, J. 1441, 1933, 5173
Zasada, J. C. 1389, 4286, 6658
Zasoski, R. J. 3113
Zaunbauer, F. 1483
Zavitkovski, J. 1080, 2028, 4408, 5581
Zavolozhin, A. F. 4541
Zawada, J. 4796
Zawierucha, E. 2586
Ždárek, J. 4212, 4213
Zedler, P. H. 3428
Zehetmayr, J. W. L. 2421, 3680
Zeide, B. 3312, 3320
Zeikus, J. G. 3548
Zel, D. W. van der 512, 513, 893, 1268, 1783, 6160
Żelawski, W. 5707
Zelenin, N. P. 4572
Zelinskaya, L. M. 405, 4966
Zemlyanoĭ, A. I. 5924
Zenova, G. M. 3495
Zensen, F. 2561
Zentmyer, G. A. 1636
Zentsch, W. 5303
Zerbe, J. I. 84, 529, 941, 5098
Zerovaĭskiĭ, Ya. D. 6200
Zerr, R. W. 3030
Zhan, M. 7148
Zhang, D. L. 7121
Zhang, H. X. 7254
Zhang, X. H. 7114
Zhao, J. 5354
Zhdyarek, Ya. 4212, 4213
Zheldak, V. I. 5186
Zheng, H. Q. 2936
Zheng Shu Fang 4861
Zheng, X. Q. 2936
Zhiznevskaya, G. Ya. 4155
Zhong, C. 7207
Zhong, Z. K. 6012
Zhou, B. T. 2936
Zhou, H. B. 3492
Zhou Pei Cun 5320
Zhou, S. Z. 2983
Zhu, B. M. 1203
Zhu, Z. H. 3264
Zhu, Z. W. 2936
Zhukova, V. M. 2852
Zhuravleva, M. V. 1361, 3955
Zhurin, I. K. 3100
Ziegler, H. 4791
Ziegler, P. 3345
Ziemer, R. R. 634, 4721, 4722, 5048
Ziemkiewicz, P. F. 455
Zieren 6101
Zil'berman, E. A. 6093
Zimmermann, H. 6617, 6674
Zimmermann, M. H. 5292, 6942, 6954
Zimmermann, W. 1998
Zinin, V. F. 204
Zink, R. L. 5200
Zinkl, J. G. 2121
Zinov'eva, V. P. 6996
Zipse, K. 4730
Zitko, V. 5790
Zitzewitz, H. v. 4526
Zlatanov, S. 4550
Znamenskiĭ, V. S. 4977
Zobel, B. 1523, 7117
Zobel, B. J. 1367
Zohary, M. 5879
Zöhrer, F. 3794
Zolotokrylin, A. N. 2852
Zolotukhin, A. I. 291
Zoltai, S. C. 5470
Zonneveld, I. S. 3071
Zorić, R. 2309
Zöttl, H. W. 3180, 5780
Źródłowski, Z. 1394
Zschupke, W. 2041
Zsilinszky, V. 6198
Zsilinszky, V. G. 4664
Zsuffa, L. 4450, 5152, 6183, 6479
Zube, E. 2418
Zulu, J. C. 202
Zumbo, J. 84
Zumr, V. 1691, 4238, 4982, 6017
Zundel, R. 2430, 7291
Zuuring, H. R. 1317
Zvirbul', A. P. 1941
Zvorykina, K. V. 5904
Zwaan, J. G. de 357, 5188, 6701, 6930
Zweck, S. 1634
Zyabchenko, S. S. 4497
Żybura, H. 1065
Zycha, H. 1630
Zydias, K. 5195
Zylstra, B. 1755
Zyuz', N. S. 4767

SPECIES INDEX

***Abies* spp.**
chemical constituents 7010
conferences, symposia 6168
diseases and disorders
canker, bark diseases 1199
foliage and shoot 7184
root 4164
economics 6795
fire, danger 5267, 5804
forest types 2234
insect pests
Hem. 7260
Hym. 5423
Lep. 808, 1219, 1743, 3650, 4974
mycorrhiza 1625
pollen 4812, 7010
protection forest 2393
regeneration, natural 5631
remote sensing 2684
soil 5259

A. alba
arthropods associated with 6666
bacteria associated with 5850
branches 2763, 5818
cleaning 3254
cone, pests and diseases 3583
conferences, symposia 1419
dendrochronology 3110
dendroclimatology 6130, 7389
diseases and disorders
complex or unidentified 707, 1420, 1565, 2163, 2293, 2781, 2877, 4096, 4796, 5840, 5841, 5842, 5843, 5844, 5845, 5846, 5847, 5848, 5849, 5850, 5851, 5852, 5853, 5854, 5855, 5856, 5857, 5858, 5859, 6188, 7005, 7007
decay 2623, 2882, 5844, 7163
root 569, 2781, 2878, 5849, 7163
seedling 569, 1618, 6502
wilts, dieback 1131, 2290, 2293, 2781, 7163, 7195
distribution 5841, 6178
ecology 249
fertilizers 3215
foliage
chemistry 3387
measurement 3943
weight 3943
forest types 1422, 2855, 6267
fungi associated with 1618
genetics/breeding 355
habit 5818
honeydew 590, 6666
honey/nectar 590
increment and yield 249, 1421, 2147, 2623, 2697, 3215, 3937, 4796, 6170, 6174, 6176
injury by
dust 6873
game 4289
gases and fumes 1131, 1419, 1720, 3378, 3387, 5856, 6873
recreational activities 3696
insect pests 1131, 2932, 3583
Col. 1720
Dipt. 2977
Hem. 5857
Hym. 1720, 2977
Lep. 3563
interplanting with, broadleaved species 3242
light relations 2763
litter/humus 3943
management 1419, 1422
measurement tables 2697, 3295
measurement, tree and stand 2678
mixtures 6873
mycorrhiza 1618, 2781, 6502
nursery management 1394
nurses for 6628
nutrition 5855
phenology 2147
physiology 6177
plantations in
Denmark 5858
Italy 2623
Poland 2932
planting stock 1394

Abies alba* *contd.
provenance studies 355, 5818, 5858, 6168, 6169, 6174, 6175, 6176, 6177, 6384
regeneration, natural 569, 2623, 3937, 6502
sap 3642
silvicultural systems 563, 565
silviculture 1419, 7282
site quality 1421
site requirements 249
sowing, direct 5637
stand density 6171
stand development 5889
stand structure 2855, 3937, 4289
variation 5858
virgin forest 3937, 4289
water relations 5844, 5848
weed control 6559
weedkillers, effect of 6559
wildlife 1419, 7282
wood
anatomy, growth rings 5821
decay 5852
defects 5851
strength properties 5852

A. amabilis 1020, 1089, 2030, 2031, 2932, 3091, 3353, 4848, 7220, 7230

A. balsamea
age estimation 3945
allelopathy 2242
biomass production 1910, 3954, 4590, 6737
browse 6499
burning, controlled 6918
Christmas trees 3276
cone, production 5158
conversion of stands 4366
dendrochronology 3381
diseases and disorders 3276
decay 2330, 3501, 3593, 7156
foliage and shoot 2304, 2306
root 2889, 3501, 7156
ecology 3429
economics 6794
epiphytes on 4808
fertilizers 109, 549, 3843, 4447, 4448, 5153, 5156, 5158
fire, danger 6918
foliage, weight 1684
forest types 2185, 5494
genetics/breeding 309, 2318, 7105
increment and yield 109, 1416, 1912, 2664, 3381, 3843, 4447, 4448, 5153, 6576, 6577, 6693
injury by
frost 1692
nematodes 2978
rodents 6499
toxic soils 3381
insect pests 2932, 3276
Hem. 2318, 3562, 3593
Lep. 814, 815, 816, 1240, 1684, 1690, 1692, 1705, 1706, 1707, 1731, 1732, 1754, 1755, 2330, 2334, 2335, 2337, 2369, 2943, 2946, 2981, 2982, 4218, 4224, 4366, 4965, 4971, 4999, 5174, 5403, 5418, 6768, 7281
juvenile 3945
litter/humus 5242
management 4366
measurement tables 5719, 6693
measurement, tree and stand 2664, 6677
microclimate 1485
mixtures 4366, 5494
nutrition 661, 4447
plantations in
Canada, Newfoundland 4411
Poland 2932
plantations on, mining wastelands 2396
provenance studies 309, 1912, 2318, 7105
regeneration, natural 661, 1968, 5174
remote sensing 6768
seed, production 5158
silvicultural systems 1416
silviculture 6794
site quality 6720
stem, form 5156, 5704

Abies balsamea* *contd.
thinning 109, 1416, 6576, 6577
variation 309, 6677
weed control 6566
wildlife 887, 1770
wood
chemistry 3381
decay 5242
variation with growth factors 3381

A. borisii-regis 2764, 4256, 6176, 6177
A. bornmuelleriana 590, 2764, 6172, 6173, 6176, 6177
A. cephalonica 590, 4256, 6176, 6177
A. cilicica 6176, 6177
A. concolor
bacteria associated with 2924
cleaning 6567
diseases and disorders
canker, bark diseases 780
decay 2924
root 2883
ecology 4086
fertilizers 6431
fire, danger 4748
foliage, weight 2017
forest types 2826, 5901
increment and yield 603, 3934, 3957
insect pests 2932
Col. 2883
Lep. 820, 1683, 3602, 3613, 4227, 5388
measurement tables 2023, 3957
measurement, tree and stand 4574
nursery management 1954
photosynthesis 4086
plantations in, Poland 2932
regeneration, natural 3861
roots
mechanics 634
quantitative measures 634
seed
dispersal 5597
production 5597
site quality 1683, 3934
soil, effect on 634
water relations 1683, 4086
weed control 1954, 6567
weedkillers, effect of 142

A. equi-trojani 2764
A. firma 4925, 7052
A. fraseri 2286, 2318, 2560, 2932, 4206, 4866

A. grandis
crown, dimensions 4578
diseases and disorders, root 5961
fertilizers 112
fire, danger 1535
foliage, weight 4578
increment and yield 3889, 3934, 3957, 4613, 6524
insect pests 2932
Lep. 1708, 1729, 2988, 2991, 3613, 4221, 4223, 5388, 6011
liberation fellings 3889
logging waste 5745
measurement tables 3957, 4613
measurement, tree and stand 4574
mixtures 564
plantations in, Poland 2932
planting methods 4503
planting stock 6524
provenance studies 354
regeneration, natural 3855, 3857, 3889
reproductive behaviour 6408
silviculture 564
site quality 3934
successional role 3855
thinning 1535
weedkillers, effect of 142
wood
quality 354
variation, genetic 354

A. holophylla 4411
A. homolepis 4411, 4925
A. lasiocarpa
crown, dimensions 4578
diseases and disorders, root 2883
fire
danger 4741, 4748
reaction to 7370

Abies lasiocarpa *contd.*
foliage, weight 4578
forest types 1963, 2826, 5326, 5901
hydrology 4692
increment and yield 239, 3296, 4613
injury by, gases and fumes 2116
insect pests 2932
Col. 844, 2883, 7230
Lep. 3644
litter/humus 4692
management 3296
measurement tables 4613
measurement, tree and stand 1452
plantations in, Poland 2932
regeneration, natural 1386, 3234
seed
dispersal 1386
production 1386
wildlife 1261
A. lasiocarpa arizonica 603, 2023
A. magnifica 142, 1020, 1593, 1954, 3861, 3895, 6431
A. magnifica shastensis 3857
A. mariesii 4411, 7045
A. mayriana 4411
A. nephrolepis 5687
A. nordmanniana 123, 2764, 6176, 6177, 6556, 6560, 7261
A. numidica 7071
A. pindrow 1970, 4164, 5145
A. procera 142, 1954, 1959, 2542, 3936, 5190, 6444, 7110
A. sachalinensis 1215, 2319, 3051, 4281, 4411, 6034, 6182, 6184, 6548, 6838, 7226
A. sibirica 2190, 4492, 4786, 5928, 7237
A. veitchii 3435, 4411, 4925
Abraxas pantaria 6005
***Acacia* spp.** 798, 1110, 1277, 1285, 2182, 2527, 2607, 2805, 3410, 4233, 6188
A. albida 1286, 2510
A. aneura 1110, 4628
A. arabica 1791, 5208
A. auriculiformis 2774, 5476, 5479, 6627
A. catechu 5367, 5714, 6047, 6049, 7049
A. caven 4115
A. cyanophylla 1277, 5070, 6902
A. dealbata 3739, 3740, 6549
A. glauca 5474, 5476, 5477, 5479
A. heterophylla 4130
A. holosericea 6852, 6853
A. koa 1655, 2563, 3233, 3440
A. leucophloea 3010
A. mangium 3461
A. mearnsii 1055, 1162, 1942, 2094, 2518
A. melanoxylon 357, 3544, 5188, 5665, 6701, 6930
A. mollissima (see *Acacia mearnsii*)
A. nigrescens 2518
A. nilotica 937, 1509, 2567, 2599, 5633, 5872, 6542, 6550
A. planifrons 6106
A. pulchella 2284
A. raddiana 5905
A. rigidula 2607
A. saligna 3263
A. senegal 1288, 6152, 6991, 7338
A. tortilis 3060, 5070, 5146, 5905, 6542, 7314
A. tortuosa 2607
Acantholyda erythrocephala 848
A. nemoralis 1211
Acaulospora scrobiculata 5467
***Acer* spp.** 31, 1429, 1644, 1685, 2124, 2697, 4655, 4798, 4817, 5323, 5941, 6693, 7069
A. campestre 905, 3350, 6503, 6557
A. ginnala 14, 34, 3865
A. grandidentatum 13
A. griseum 14, 1360
A. macrophyllum 3885
A. mandshuricum 1360
A. montanus 5488
A. negundo 1460, 2995, 3679, 4303, 4519, 6372, 6691, 7387
A. nigrum 5875
A. nikoense 1360
A. pensylvanicum 3236, 4809
A. platanoides 1549
arboriculture 924
diseases and disorders
complex or unidentified 706
root 278, 1564
wilts, dieback 2292, 2895
Acer platanoides *contd.*
fertilizers 114, 924
foliage
chemistry 5796
microflora 3480
genetics/breeding 2895
increment and yield 7379
injury by
gases and fumes 1516, 5796
girdling 278
salt 2118
measurement, tree and stand 3702
ornamental value 7385
plantations in, urban areas 3702
remote sensing 1475, 2687
roots, deformation 1564, 2153
street trees 926
weed control 7379
wood, anatomy, abnormal 278
A. pseudoplatanus
biomass production 73, 2051
chemical constituents 5835
diseases and disorders
canker, bark diseases 3525
foliage and shoot 2877, 3537, 4916
ecology 7242, 7243, 7244
fertilizers 4707, 7143
fuel plantations 73
genetics/breeding 6232
grazing and pasture 5012
hedgerow trees 1834
increment and yield 2658
injury by
gases and fumes 666
grazing 567
rodents 6062
interplanting in, broadleaved species 3268
management, forest 6240
mycorrhiza 7143
nutrition 635, 1880, 4707
physiology 5835
plantations on
dry sites 3350
marginal, waste, degraded land 3680
mining wastelands 3680
watersides 5041
planting methods 6503
propagation by cuttings 6417
protection forest 2393
provenance studies 3465
regeneration, natural 567, 568
sap 3642
seed
production 3465
seed orchards 5939
weed control 6559
weedkillers, effect of 6559
wood
anatomy
cambium 2150
cell-wall 2150
A. rubrum 1159
arboriculture 7381
bark, anatomy 1154
biomass production 2048, 4586, 4590, 6736
branches 2260
calorific value 269
chemical constituents 14
control, chemical 141
coppice 4489
diseases and disorders
decay 2260, 2281, 5347, 7156
root 7156
seedling 7152
wilts, dieback 2292
fertilizers 115
genetics/breeding 302, 745, 2861
increment and yield 1462
injury by
flooding 5249
gases and fumes 1516, 4712
insect pests
Col. 825
Lep. 856
measurement, tree and stand 3702, 4567, 6677
nursery management 115
nutrition 2109, 4712
ornamental value 32, 6118
phenology 115
physiology 7152
Acer rubrum *contd.*
plantations in, urban areas 3702
propagation by cuttings 14
pruning 2260
regeneration, artificial 1028, 1029
seed
germination 1358
variation 1358
site quality 1462, 2663, 6728
stand development 2243
stand structure 2243
thinning 4548
translocation 2109
tree surgery 745, 3703, 5527
variation 6677
water relations 7152
wood
anatomy
branchwood 6942
rootwood 6942
chemistry 2281
***A. rubrum* 'Red Sunset'** 115
A. rubrum* × *A. saccharinum 745
A. saccharinum 14, 135, 384, 745, 926, 1042, 1170, 1460, 2687, 3702, 3865, 5527, 6505, 6865, 7381
A. saccharum 6655
arboriculture 924, 7381
biomass production 2029, 2048, 3953, 3961, 4586, 6698, 6736
browse 885
calorific value 269
chemical constituents 14, 6463
conversion of stands 1030
diseases and disorders
complex or unidentified 705, 5344
wilts, dieback 1549, 2292
economics 1100
fertilizers 705, 924, 1838
genetics/breeding 302
habit 3236
increment and yield 1462, 3961, 6748, 6999
injury by
artificial wounding 1838
gases and fumes 1516
insect pests
Col. 825
Lep. 3278, 3605
irrigation 6999
leaf, anatomy 5875
litter/humus 1501
management 6494, 6748
measurement tables 3928, 5719, 6698
measurement, tree and stand 3320, 3702, 3928, 6675
mixtures 3865
mycorrhiza 5620
nursery management 5620, 6463
ornamental value 6119
phenology 3236, 6999
plantations in, urban areas 3702
planting stock 135
propagation by cuttings 14
provenance studies 536
regeneration, artificial 1028, 1029
regeneration, natural 127, 885, 3236
remote sensing 2687
roots, growth 135
sap, sugar 3278, 3320
site quality 1462, 2663, 6728
stand development 2243
stand structure 2243
street trees 705, 926
successional role 3436
taxonomy 5875
tending, general 1837
thinning 6494
variation 6675
water relations 633, 6675, 6999
wood, anatomy, abnormal 1549
A. spicatum 1910, 1968, 6858
A. triflorum 1360
***Achras* spp.** 5281
Acleris gloverana 3126, 6205
Acmaeops septentrionis 400
A. smaragdulus 400
***Acmopyle* spp.** 711
***Acokanthera* spp.** 7020
Acremonium strictum 3481
Actinida arguta 5863
Actinomycetes 384
Actinostrobus pyramidalis 1164

Adalia conglomerata 7210
***Adansonia* spp.** 6970
A. digitata 2151, 6934
***Adelges* spp.** 7187
A. laricis 2932
A. nordmannianae 2932, 5857, 7261
***A. nüsslini* (*A. nuesslini*)** (see *Adelges nordmannianae*)
A. piceae 2330, 3562, 3593, 4411, 4953, 7260
A. viridis 2932
Adenanthera pavonina 90
Adenopetalum biglandulosum 4772
Adenostoma fasciculatum 4823, 5018
Aesculus* × *carnea 4433
A. hippocastanum 397, 1475, 3217, 4360, 4872, 5863
A. indica 5775
Afrormosia (see *Pericopsis*)
Afzelia quanzensis 2518, 2567
***Agathis* spp.** 2864, 3433, 4780
A. annulipes 2953
A. atropurpurea 1428
A. australis 1070, 2854, 4689, 4779, 6842
A. microstachya 1428
A. obtusa 6842
A. philippinensis 3452
A. pumila 2333, 4265
A. robusta 1428
Agave lecheguilla 3275, 4564
***Agrilus* spp.** 2294
A. anxius 1716
A. bilineatus 4981
A. viridis 3267
Agriopis aurantiaria 1747, 6010
A. marginaria 1747
Ailanthus altissima 3265, 3384, 6372
A. excelsa 5371
***Aiouea* spp.** 1590
Alangium ebenaceum 720
A. ebenaceum tutela 720
A. ridleyi 6994
Albizia falcata (see *Albizia falcataria*)
A. falcataria 110, 983, 2938, 4071, 4161, 5474, 5479, 6732
A. julibrissin 1549, 6961
A. lebbek 2510, 6042, 6428, 6542
A. lucida 2638
A. zygia 2236
Alces alces 882, 1765, 2376, 3018, 4287, 5035, 5037, 5441, 5503, 5718
Aleurites fordii 3511
Alhagi camelorum 2161
Allodorus semirugosus 4979
Allolobophora calignosa 4336
***Alnus* spp.** 73, 76, 755, 905, 1881, 1910, 3263, 3435, 5134, 6182, 6621, 6873
***A.* (*Alnaster*)** 275
***A.* (*Gymnothyrsus*)** 275
A. cordata 2256, 2904, 3263, 3486
A. crispa 1933, 3486, 6858
A. firma 3669
A. glutinosa
- biomass production 81, 1460
- chemical constituents 4714
- control, chemical 1988
- coppice 587, 1460
- fertilizers 4307
- foliage, chemistry 703
- forest types 6107
- fuel plantations 1460
- genetics/breeding 2861
- ground cover 6096
- increment and yield 653, 1460, 2697
- injury by
  - deer 7271
  - gases and fumes 4714, 6876
  - grazing 567
- interplanting in, conifers 3242
- irrigation 3880
- logs, grading 4656
- measurement tables 2697, 6696
- mycorrhiza 755
- nurse to, broadleaved species 4557
- nutrition 6094
- plantations in
  - Great Britain 81
  - USA, south-eastern 196
- plantations on
  - marginal, waste, degraded land 81
  - mining wastelands 908, 4307, 5468, 6096, 7316
  - sand dunes 6094

Alnus glutinosa *contd.*
- plantations on *contd.*
  - watersides 5041, 6094
- planting methods 6503
- propagation by cuttings 6417
- provenance studies 3465
- regeneration, natural 567
- roots
  - nodules 2270, 3486, 3493, 3494
  - physiology 2270
- seed, production 3465
- site preparation 6096
- soil, effect on 908
- tissue culture 4440
- water relations 653, 6094

A. incana
- distribution 286, 5877
- ecology 5877
- increment and yield 653, 3959
- leaf, anatomy 7315
- measurement tables 3959
- mycorrhiza 755
- plantations in
  - Poland 1130
  - USSR, Russian region, northern 3959
- plantations on
  - erodible sites 1788, 5446
  - mining wastelands 5468, 7315
  - polluted sites 1130
  - watersides 5041
- pollen 4097
- propagation by cuttings 1933
- protection forest 2393
- roots, nodules 3486, 3494, 3495
- taxonomy 286
- water relations 653

A. inokumae 6849
A. jorullensis 471, 474, 7071
A. rhombifolia 755
A. rubra 372, 585, 643, 1226, 1430, 1927, 1947, 2005, 2274, 3263, 4078, 5448, 5934
A. rugosa 286, 2396, 3059, 3250, 5075
A. serrulata 286
A. sinuata 755, 5659
A. tenuifolia 286
A. viridis 1788, 3027
Alouatta palliata 4797
Alpoya diplophloeus 755
***Alsophila* spp.** 1747
A. pometaria 1685, 2954, 3606, 4963
Alternaria alternata 379, 5977
Altica quercetorum 4242
Amanita muscaria 1880, 2875, 4847, 5339
A. pantherina 4845
Ambrosia dumosa 3357
***Amelanchier* spp.** 6858
A. ovalis 291
Amitermes belli 7208
Ammodendron conollyi 2161
Amorpha fruticosa 291, 2401
Amphicerus bimaculatus 1713
Amphisalta cingulata 1213
A. strepitans 1213
A. zelandica 1213
Amygdalus (see *Prunus*)
Amylostereum areolatum 1233, 2971, 3635
Anacardium occidentale 1275, 5476, 6030
Andira inermis 7032
Angophora costata 3364
***Aniba* spp.** 1590
Anisoptera scaphula 3826
Annona cacans glabriuscula 4776
A. glabra 4776
A. muricata 5300
Annonaceae 287, 4128, 4776, 4778
Anogeissus latifolia 2313, 4819, 5831
A. leiocarpus 2236
A. pendula 5325, 7049
Anomala motschulskii 5421
Antechinus flavipes 7283
A. stuartii 7283
Anthaxia conradti 2314
A. quadripunctata 400
***Anthocephalus* spp.** 530
A. cadamba (see *Anthocephalus chinensis*)
A. chinensis 2054, 3846, 3877, 4099, 4441
Apanteles fumiferanae 2981, 2982, 4972, 4975
A. solitarius 3615
A. tedellae 5394
Apate monachus 811, 1713, 4234
Apechthis ontario 2982
Apeiba aspera 468

Apeiba *contd.*
A. tibourbou 7032
Aphidecta obliterata 7210
Aphididae 5422
Apis mellifera 6666
Apodemus flavicollis 4282
Apuleia leiocarpa 90
Aquilaria hirta 5679
A. malaccensis 5679
Aradus cinnamomeus 2315, 2935, 4951, 6573, 7209
Araliaceae 5825
Arapatiella emarginata 289
***Araucaria* spp.** 2577, 3433, 4780, 6133
A. angustifolia 2597, 2657, 3369, 3586, 4182, 6298
A. araucana 4182
A. bidwillii 4922
A. cunninghamii 251, 2864, 3453, 3456, 3740, 7071
A. heterophylla 30, 1163, 3742
A. hunsteinii 251, 2864, 3451, 3453, 4516, 6418, 7071
A. imbricata (see *Araucaria araucana*)
A. klinkii (see *Araucaria hunsteinii*)
Arbutus menziesii 4577
A. unedo 6979, 6984, 6985
***Arceuthobium* spp.** 239, 1669, 2928, 5183, 5382
A. abietinum 3895
A. americanum 1667, 1668, 1670, 2312
A. cyanocarpum 2927
A. douglasii 1668, 4054
A. laricis 1668
A. microcarpum 3554
A. pusillum 1671
A. tsugense 3125
A. vaginatum cryptopodum 1206, 2339
Archips issikii 1215
A. xylosteanus 1747
Arctostaphylos glandulosa 5018
A. patula 1407, 4086
A. uva-ursi 1533, 1933
Areca catechu 4121
A. triandra 4121
Arecastrum romanzoffianum 209
Argyresthia laevigatella 1682
Arhopalus ferus 1733
Aridaeus thoracicus 1733
Armeniaca (see *Prunus*)
***Armillaria* spp.** 39, 4851, 4880, 6188
A. bulbosa 5349
A. limonea 2276
A. luteobubalina 2886, 2888, 4877
A. matsutake (see *Tricholoma matsutake*)
A. mellea 5513, 7166
- assessment 772, 1478, 5950
- biology and physiology 2285, 4885, 4886, 5962
- conferences, symposia 1629, 1632
- control 772, 2274, 2279
- damage by 707, 772, 4164, 5349, 5950, 5961, 7157
- detection 381, 389, 1478
- ecology 2277, 2285, 3501, 4878, 4880, 5346, 5349, 5961
- effect on wood 7156
- identification 5346
- interaction with fungi or bacteria 389, 2279
- interaction with insects 2883, 3631
- physiological effects 2273
- resistance to 364, 1971, 4411, 5962
- soil-borne infection 2285, 4164
- study methods 381

A. novae-zelandiae 2276
A. ostoyae 364, 5349
A. tabescens 4884, 5349
Armillariella mellea (see *Armillaria mellea*)
***Artemisia* spp.** 2176, 2757, 5016
A. arbuscula 3001, 4527
A. cana 5014
A. frigida 5599
A. herba-alba 3009
A. nova 3001
A. tridentata 671, 933, 1545, 1782, 3001, 3092, 4053, 4860, 5014, 5015, 5021, 5599, 7327
A. tridentata vaseyana 3001, 3005, 5065
A. tridentata wyomingensis 3001, 3005, 3371
A. vulgaris 7327
Arthropoda 4199, 5383

Artocarpus heterophyllus 5203, 6673
A. hirsutus 2406, 6673
Arundinaria **spp.** 7052
Arvicola terrestris 7262, 7264, 7275, 7276
Ascocoryne **spp.** 769
Ascodichaena rugosa 2877, 3531
Aspergillus niger 254, 762, 4867
Aspidosperma melanocalyx 1166
A. nobile 1166
Astraeus hygrometricus 757
A. pteridis 755, 4845
Astronium concinnum 90
A. fraxinifolium 90
A. urundeuva 90
Ateleia popenoei 715
Athrotaxis cupressoides 1312, 6126
A. selaginoides 1312, 6126
Atriplex **spp.** 1569
A. bonnevillensis 2562
A. canescens 457, 7003, 7327
A. confertifolia 5599, 7003
A. corrugata 7003
A. cuneata 7003
A. tridentata 7003
Atta **spp.** 4257
A. laevigata 2994
A. sexdens rubropilosa 2994
A. texana 5412
Aulographina eucalypti 784
Aureobasidium pullulans 748
Austrocedrus (see *Libocedrus*)
Austrotaxus spicata 711
Avicennia alba 3604, 6848
A. germinans 4843, 5823
A. marina 2145, 5823, 6158, 6848
A. marina resinifera 5823
A. nitida 3443
A. officinalis 2484
Azadirachta indica 1433, 2411, 2510, 2567, 3420, 3712, 6030, 6453, 6542, 6946
Baccaurea **spp.** 1852, 7013
Baccharis pilularis × ***B. sarothroides*** 10
Bacillus **spp.** 386, 2274
B. subtilis 5342
B. thuringiensis 867, 2986
review 1241
Balanites aegyptiaca 6947
B. dawei 6947
B. maughamii 6947
B. wilsoniana 6947
Balanocarpus heimii 3816
Balfourodendron riedelianum 2597
Bambusa balcooa 4890
B. gibba 1447
B. oldhami 5393
B. textilis 1447
B. tulda 2481
B. vulgaris 4434, 4890
Bambuseae 4113, 4562, 5554, 6149, 6665
Banksia grandis 383, 1640, 5340
B. ornata 2111
B. serrata 3364
Barbara colfaxiana 4943, 5397
Barbitistes constrictus 1211
Barnebya dispar 2177
B. harleyi 2177
Barylucuma decussata 5282
Basidiomycetes 386
Batocera rufomaculata 2956
Bauhinia diphylla 1509
B. purpurea 6986
B. tomentosa 6986
Beauveria bassiana 821, 1244, 1739, 3592, 6000, 7248, 7255
Beilschmiedia **spp.** 1590
B. tarairi 1172
B. tawa 1070, 1172, 2277
Berberis thunbergii 16
Bertholletia excelsa 90
Betula **spp.** 3435, 5041
bark, anatomy 4069
control, chemical 3252
diseases and disorders, decay 2891, 3505
foliage, optical characteristics 6775
forest types 4818
general information 3265
genetics/breeding 6182
injury by, frost 4069
insect pests, Lep. 1685, 6006, 6007
mycorrhiza 4856
plantations in, USSR, Russian region, central 4417
Betula **spp.** *contd.*
plantations on, marginal, waste, degraded land 1881
pollen 4782, 4812
propagation by cuttings 5608
regeneration, natural 1388
tissue culture 29, 2891
vegetation types 5323
B. alba (see also *Betula pendula*; *Betula pubescens*)
bark, quantitative measures 3285, 6679
biomass production 73
control, chemical 4526
fertilizers 1941
fuel plantations 73
genetics/breeding 7070
ground cover 5776
hydrology 4705
increment and yield 235, 238, 1048, 2658, 2697, 6261
injury by
deer 5035
gases and fumes 5789
mammals 6621
insect pests 6621
measurement tables 2697, 5221, 6696
mixtures 1048, 4366, 4595
nurse to, conifers 4526
nutrition 2735, 6843
plantations in, Sweden 5748
plantations on
marginal, waste, degraded land 3680
mining wastelands 3680, 7326
radiation, effect of 2735, 4686
regeneration, natural 6495
silviculture 1048, 1429
soil 5776
flora 6843
stand quality 5221
stem, form 3285
transpiration 4016, 4705
water relations 4016
B. alleghaniensis 20, 1910
biomass production 2048, 3953, 3961, 6698
calorific value 269
cleaning 1418
diseases and disorders
decay 7156
root 7156
forest types 5075
genetics/breeding 302
habit 3236
increment and yield 1418, 1462, 3961, 6693, 6748
insect pests, Lep. 2320
leaf
anatomy 27
morphology 27
litter/humus 1501
management 6494, 6748
measurement tables 6693, 6698
measurement, tree and stand 4567, 6676
phenology 3236
regeneration, natural 3236, 4491
site quality 1462, 2663, 6728
stand development 2243
stand structure 2243
thinning 6494
variation 6676
B. carpatica 6229
B. czerepanovii 290
B. ermanii 3474
B. glandulosa × ***B. pendula*** 5590
B. kirghisorum 4069
B. korshinskyi 4069
B. lanata 356
B. lenta 391, 1837, 2243, 4567
B. lutea (see *Betula alleghaniensis*)
B. mandshurica japonica 2640, 2655, 6849
B. maximowicziana 2877
B. nana 5828, 5877
B. nana × ***B. pendula*** 5828
B. nana × ***B. pubescens*** 5828
B. nigra 1018, 3374
B. papyrifera 1159
allelopathy 2242
biomass production 1910, 3317, 3946, 3954, 4586, 4590, 6736
browse 5718
calorific value 269
diseases and disorders
canker, bark diseases 391
Betula papyrifera *contd.*
diseases and disorders *contd.*
decay 6208, 7156
root 7156
economics 6796
fire, danger 2133
forest types 2185, 5494
genetics/breeding 302
increment and yield 1079, 1462, 5718, 6693
injury by
gases and fumes 3383, 4712
pollution 3374
insect pests
Col. 1716
Lep. 3605, 5999
insecticides, effect of 5007
measurement tables 6693
measurement, tree and stand 1079, 6677
mixtures 5494
nutrition 4712
plantations on
mining wastelands 2396
peatland 2602
planting stock 135
regeneration, natural 1968
roots, growth 135
sap
sugar 6658
tapping 6658
seed, germination 5007
site quality 1462, 2663, 6720, 6728
variation 6677
B. papyrifera cordifolia 3429
B. pendula (see also *Betula alba*)
allelopathy 291
bark
anatomy 4069
chemistry 2776
biomass production 77, 81, 6727
buds 4090
chemical constituents 4714, 5835
control, chemical 1988
crown, development 6244
diseases and disorders, decay 1639
distribution 5877
ecology 5877
fertilizers 2591, 6442
flowering 1882, 3815
foliage, chemistry 5828
forest types 5904
fruit 688, 5874
genetics/breeding 3475, 6901
growth regulators in 4090
hybrids 356
identification 4109
injury by
deer 3660
gases and fumes 666, 4714
salt 2118
insect pests, Col. 1716
litter/humus 2093, 5772
logs, grading 4656
measurement tables 3287
morphology 688
mycorrhiza 757, 1880, 3487, 4153
nutrition 635, 1880
physiology 2554, 5835
plantations in
Finland 6613
Great Britain 81
Poland 1130
plantations on
erodible sites 6442
marginal, waste, degraded land 81
peatland 902
polluted sites 1130
planting methods 6503
pollen 4097
propagation by cuttings 2554
provenance studies 2259, 3807
regeneration, natural 2591, 3862, 4309
seed 3862
identification 5874
production 3815
seed trees and stands 5602
shelterbelts 291, 651, 5463
soil 5241
spacing 5463
taxonomy 5874
variation 688, 2259
water relations 651, 5463
weed control 291

***Betula pendula* contd.**
wood
anatomy 6948, 7028
abnormal 6972
rootwood 6948
B. platyphylla 4069, 4818
B. platyphylla japonica (see *Betula mandshurica japonica*)
B. populifolia 856, 1716, 4590
B. pubescens (see also *Betula alba*)
biomass production 77
distribution 5877
ecology 5877
economics 6802
fertilizers 2591
flowering 3815
foliage, chemistry 5828
forest types 5904
fruit 688, 5874
genetics/breeding 3475
growth regulators in 2160
identification 4109
injury by
deer 7271
gases and fumes 666
pollution 3374
insect pests
Col. 418, 419
Hym. 850
Lep. 850
leaf, morphology 1881
litter/humus 2093
measurement tables 3287
morphology 688
mycorrhiza 1880, 3487, 4153
nutrition 1880
plantations on, peatland 902
pollen 4097
regeneration, natural 2591, 3862
seed 3862
identification 5874
production 3815
silviculture 6802
taxonomy 5874
variation 688
wood
anatomy 5289, 6948, 7028
abnormal 6972
rootwood 6948
B. pubescens tortuosa 813, 5866, 6976, 6977, 6978
B. tortuosa 290, 5828
B. turkestanica 4069
B. verrucosa (see *Betula pendula*)
Bifiditermes beesoni 797
Blastophagus piniperda (see *Tomicus piniperda*)
Blastophora betulae 4925
***Boarmia* spp.** 1694
***Boletus* spp.** 2272, 7150
B. badius 3487
B. edulis 4853
B. granulosus 2266
Boletus subtomentosus 3487
Bombacaceae 2151
***Bombax* spp.** 2406
B. ceiba (see *Bombax malabaricum*)
B. malabaricum 2879, 5328, 5482, 6395
Boraginaceae 277
Bos gaurus hubbacki 1853
***Boscia* spp.** 1285
Bostrychidae 1713
Boswellia serrata 5325, 7049
***Botryodiplodia* spp.** 2271, 3526
B. hypodermia 2302
B. theobromae 773, 1614, 5952
Botryosphaeria dothidea 392, 5354
B. piceae 7179
B. ribis 2913
B. stevensii 175
Botrytis cinerea 1618
Bourreria purpusii 277
Bowdichia racemosa 90
Brachylaena discolor 2518
B. hutchinsii 2567
Brachymedia intermedia 856
Brachypodium ramosum 4033
Brachystegia boehmii 2606
B. spiciformis 2606
Bracon greeni 588
Breonadia microcephala 2518
Brevipalpus pini 3638
Brodriguesia santosii 289
Brosimum lactescens 7032
B. utile 7032
Bruguiera caryophylloides 1595
B. conjugata 6158
B. cylindrica 2145, 2792
B. gymnorrhiza 2792
B. parviflora 1860, 2792
B. sexangula 2792
Brunchorstia pinea (see *Gremmeniella abietina*)
Buchanania lanzan 5714, 7211
***Buchenavia* spp.** 1201
Bupalus piniarius 1211, 1704, 1751
Buprestidae 2350
Buprestis aurulenta 7229
Burchellia bubalina 128
Burkea africana 2236, 2756
Bursaphelenchus lignicolus 231, 858, 874, 2965, 2979, 3566, 4996, 5005, 6185, 6193, 7222, 7250
B. xylophilus 2978, 6029, 6185
Bursera penicillata 1054, 1659
Burseraceae 4128
Butea monosperma 588, 4819, 5324, 5325, 5714
Butyrospermum parkii 2236, 2636
Buxus microphylla 5262
B. sempervirens 764
Buzura edwardsi 1693
Byssoporia terrestris 5943
***Cadaba* spp.** 1285
***Calamus* spp.** 7019
C. caesius 5680, 6663
C. manan 5681
C. scipionum 2012
C. trachycoleus 2013
Calliandra calothyrsus 5474, 5476, 5477, 5479
Callicebus moloch 1260
C. torquatus 1260
Calligonum polygonoides 7314
Callipepla squamata 883
Callistemon phoenicus 1509
***Callitris* spp.** 711, 1312
C. calcarata 2577, 6364
C. columellaris 2660, 4599
C. hugelii (see *Callitris columellaris*)
C. preissii 2577
C. rhomboidea 2577
C. verrucosa 6902
Calluna vulgaris 1406, 2203
Calocedrus (see *Libocedrus*)
Calocera viscosa 382
Calophyllum elatum 6673
C. tomentosum 6673
Caloscypha fulgens 1930
Calosoma frigidum 791, 2952
***Camellia* spp.** 222
Camponotus pennsylvanicus 6026
Campoplex frustranae 412
Canis lupus 1767
Cantharellus infundibuliformis 5943
Canthium barbatum 6945
C. obovatum 128
Capparidaceae 2236
Capra falconeri 2379, 5322
Capreolus capreolus 880, 3655, 3662, 5039, 6060, 7271, 7272
Carabidae 5407
Caragana ambigua 5322
C. arborescens 291, 4303
Carapa guianensis 6752
Carcelia lagoae 4957
Cardiaspina albitextura 39
C. densitexta 39
Careya arborea 3282
Cariniana legalis 90
Carpinus betulus
biomass production 77
control, chemical 3252
coppice 5191, 6493
ecology 793
forest types 1119, 2235
hydrology 6821
increment and yield 2697
injury by
recreational activities 5076
rodents 442
insect pests 793
litter/humus 1119, 4007
management 5626
measurement tables 2697, 5728
mixtures 5192, 5728
***Carpinus betulus* contd.**
phenology 4064
plantations on
dry sites 3350
watersides 5041
roots, systems, distribution 1547, 5076
sap 3642
silvicultural systems 5626
soil 1119
effect on 4007
soil requirements 6821
tending, general 5728
underplanting in, broadleaved species 6624
Carulaspis visci 4952
Carvocar villosum 90
***Carya* spp.** 181, 1097, 1154, 1843, 2620, 3703, 4004, 4704, 6865, 7231
C. aquatica 188
C. glabra 5027
C. illinoensis 1047, 4146, 4688, 7138
C. ovata 193, 1837, 6372
C. texana 4980
C. tomentosa 2109
Caryocar brasiliensis 3485
Casearia corymbosa 3419
***Cassia* spp.** 1924, 5678
C. fistula 4870, 5595
C. grandis 3417
C. multijuga 3416
C. siamea 1509, 2510, 2567, 3940, 7254
Cassine eucleiformis 1552
C. maritimum 1552
***Castanea* spp.** 590, 1723, 4410, 6180, 7206
C. crenata 853, 1656, 7191
C. dentata 24, 782, 2295, 4567, 4910
C. mollissima 24, 2011, 5839, 7316
C. sativa
biomass production 77
coppice 5726, 6626
diseases and disorders 3263
canker, bark diseases 782, 783, 2911, 3532, 3533, 5980, 6652, 7153, 7175, 7177
decay 7153
foliage and shoot 7153
stem rusts 2301
economics 6802
flowers 783
fruit 3823, 6313, 6625, 6652, 6653
general information 3263
honeydew 590
honey/nectar 590
increment and yield 5726
insect pests, Lep. 2948
litter/humus 2713, 5771
management 6313, 6625, 6652, 6653
measurement tables 5726
plantations in
Czechoslovakia 6372
Italy 6654
pollen 783
propagation by grafting 3532, 3533
seed
chemistry 3823
edible 586, 3823
fodder 586
seedlings 7112
silviculture 6802
soil 5771
effect on 2713
variation 7112
***Castanopsis* spp.** 3433
C. cuspidata 6483
Castilla tunu 7032
Castor canadensis 184
***Casuarina* spp.** 959, 981, 2175
C. cunninghamiana 2518, 2567
C. equisetifolia 1275, 2563, 2567, 2936, 5222
C. glauca 2936
C. junghuhniana 994
Catalpa* × *hybrida 5863
C. speciosa 3865
***Cathaya* spp.** 998
C. argyrophylla 7027
Catocala promissa 2948
Catopsilia pomonae 7254
Catostemma digitata 2788
Ceanothus cuneatus 5022
C. greggii 5018
C. integerrimus 1407
C. megacarpus 3947

Ceanothus contd.
C. velutinus 634, 4086
Cebidae 1854
Cecidomyia pini 3636
Cecropia obtusifolia 7032
Cedrela spp. 4150
C. angustifolia 2179
C. fissilis 2179
C. mexicana (see *Cedrela odorata*)
C. odorata 462, 473, 2179, 2528, 4958
C. toona (see *Toona ciliata*)
Cedrus spp. 4389
C. atlantica 601, 2978, 3707, 4335, 4831, 6556, 6560, 6847
C. deodara 797, 1491, 1928, 2978, 4164, 4335, 4783, 4858, 5775
C. libani 1746
Ceiba pentandra 484
Celtis spp. 1154
C. laevigata 188, 189, 1111, 4688
C. occidentalis 2452, 4688
C. spinosa 2607
Cenangium ferrugineum 4189
Cenococcum geophilum 751, 2262, 4845, 5943
C. graniforme 4848, 7137
Centrolobium spp. 2175
Cephalcia lariciphila 4990
Cephaleuros virescens 5381
Cephalotaxus harringtonia 546
Ceraceomerulius serpens 5348
Cerambycidae 833, 2350, 2352, 4230, 6657
Ceratocystis spp. 4896
C. diospyri 773
C. fagacearum 773, 1883, 2896, 4895, 4896, 5352, 5353
C. fimbriata 364, 366, 4896, 4903, 4904, 4911, 7197
C. montia 4195
C. piceae 6028
C. roboris 5963
C. ulmi 167
biology and physiology 774, 3507, 3509, 4897
control 774, 775, 776, 777, 778, 1204, 1643, 2861, 2892, 3552, 4194, 4896, 5350, 5351, 5981, 5982, 7146, 7173
damage by 905, 2287, 7170
detection of diseased or dead trees 2688
diseases and disorders, wilts, dieback 4166
ecology 422, 828, 836, 1194, 2340, 3509, 5350, 7173, 7348
economics 3552, 5982
effect on wood 4167, 4899, 4900
laboratory culture 2291, 5351
physiological effects 1644, 1646, 2288, 3508, 4900
predisposing factors 5387
resistance to 1194, 1642, 2288, 2897, 3507, 3508, 4897, 5965
study methods 774, 3507, 4899
symptoms 5387
C. wageneri 5961
Ceratonia siliqua 1932, 3277, 4410, 6902
Cercis canadensis 1047, 3200
Cercocarpus ledifolius 992, 2659
C. montanus 2659, 5016, 5599
Cercopithecus aethiops tantalus 1854
Cercospora pini-densiflorae 5365, 5951, 7180
C. sequoiae 1191
C. wrightia 2307
Ceriops roxburghiana 4488, 6158
C. tagal 1594, 2145
Cermatulus nasalis 420
Ceromasia auricaudata 4975
Cervus canadensis 1765, 5030
C. canadensis nelsoni 3004, 4278
C. elaphus 880, 886, 2835, 3012, 3016, 3471, 3655, 3660, 4277, 5038, 5039, 5763, 6060, 6192, 7118, 7271, 7272
C. nippon centralis 6192
C. unicolor 1853
Chalcididae 1678
Chalinolobus tuberculatus 2380
Chamaebatia foliolosa 5648
Chamaecyparis spp. 166, 6182
C. formosensis 6508
C. lawsoniana 768, 1617, 2148, 2280
C. nootkatensis 6408
C. obtusa
biomass production 6739

Chamaecyparis obtusa contd.
chemical constituents 7052
diseases and disorders, flowers and fruits 5977
fertilizers 5617, 6449
flowering 6181
genetics/breeding 7077
increment and yield 4604, 6730, 6749
insect pests, Lep. 4968
insecticides, effect of 5008, 5009
litter/humus 3356
measurement, tree and stand 3320
photosynthesis 6180
plantations in, Japan 7052
pollination 7011
propagation by cuttings 3206
pruning 5658
regeneration, artificial 4506
reproductive behaviour 7011
respiration 6180
site quality 6730
sowing, direct 4506
thinning 4604
water relations 3029, 3206
Chiclea spp. 5281
Chionanthus spp. 1570, 2794
C. crispus 2794
C. elaeocarpus globosus 1570
Chiromanthes onychophorum 2110
Chisocheton spp. 3433
Chlaenus rayotus 2357
Chlorida festiva 4233
Chlorophora excelsa 3814
Chlorophorus spp. 2314
Chloroscypha seaveri 5975
Chondrostereum purpureum 6547
Choristoneura spp. 2946, 4970
C. biennis 4219
C. conflictana 1209, 2953, 4961, 4976
C. diversana 1215
C. fumiferana
attractants 413, 4959, 4962, 5995, 6039
tetradecenal 3640
bibliography 4219
biology and ecology 1692, 1707, 2316, 2943, 6190
control 443, 815, 867, 875, 1239, 1240, 1688, 1730, 1731, 1732, 1740, 1743, 1754, 1755, 1756, 2356, 2360, 2361, 2362, 2369, 2943, 2981, 2982, 3618, 3640, 3646, 3650, 3651, 4217, 4224, 4366, 4945, 4946, 4955, 4999, 5418, 5429, 5430, 5511, 5791, 6041, 7252, 7258, 7280
damage by 1684, 1688, 1690, 1692, 1705, 1709, 1731, 2316, 2335, 2336, 2337, 4218, 4220, 4366, 4965, 4971, 5174, 5403, 5511, 6768, 7281, 7390
forecasting 5998
hormone treatments 5429
host relations 810, 814
parasites and predators 815, 1770, 2952, 2981, 2982, 3603
physiology 814
population studies and surveys 816, 817, 1706, 3585, 4220, 4224, 4226, 5997
resistance to 4411, 7105
study methods 816, 4218, 4220, 5997, 6768
systems analysis and simulation 4945
trapping 413, 817, 4962, 6039
C. lambertiana 2114
C. murinana 1211, 3563
C. occidentalis 440, 1240, 1700, 1701, 2121, 2363, 2988, 2991, 2992, 3564, 3602, 3644, 3645, 4219, 4271, 4274, 4969, 4972, 4974, 4975, 4997, 5388, 5991, 6003, 6044, 6191, 6204
C. pinus 1214, 4219
C. viridis 4227, 5388
Chosenia macrolepis 4818
Chromolucuma spp. 3405
C. baehniana 3405
C. rubriflora 3405
C. sericea 3405
Chroogomphus tomentosus 5943
Chrysocharis laricinellae 2333, 3641, 4265
Chrysomyxa arctostaphyli 2915
C. ledicola 2915
C. pirolata 2915, 4932
C. woronini 2915
Chrysophila guagara 7032
Chrysothamnus spp. 2176

Chrysothamnus contd.
C. nauseosus 457, 7327
C. nauseosus albicaulis 5065
C. nauseosus bigelovii 5599
C. nauseosus consimilis 5599
C. viscidiflorus 3001
Chusquea tenuiflora 3438
Ciborinia whetzelii 5950
Cinara spp. 2317, 5664
C. cupressi 164, 173, 174
C. laricis 207
C. pectinatae 6666
C. pilicornis 402, 7210
C. pinea 3590
C. pini 3590
C. piniformosanus 5392
C. todocola 2319, 6034
Cinnamomum spp. 1590
C. parthenoxylon 6994
C. zeylanicum 6673
Cissus spp. 1553
Cistus monspeliensis 4033
Citheronia regalis 790
Citrus spp. 590
Cladosporium spp. 748, 3480, 3499
C. herbarum 379, 5983
C. tenuissimum 5983
Clematis vitalba 2858
Cleobora mellyi 1243
Cleora cinctaria 3594
C. injectaria 3604
Clerodendrum viscosum 6429
Clethrionomys glareolus 4282, 7262, 7263, 7264
C. rufocanus bedfordiae 4281
C. rutilus 4286
Climacodon septentrionalis 5348
Clostera anastomosis 5401
Closterocerus cinctipennis 434
Clostridium spp. 386, 5850
C. butyricum 3548
Clytus arietoides 400
Cnethocampa pityocampa (see *Thaumetopoea pityocampa*)
Coccinella septempunctata 7210
Coccinellidae 1678
Coccinula quatuordecimpunctata 7210
Coccoloba spp. 1576
Coccygomimus furionellae 856
Cochlospermaceae 2798
Cocos nucifera 4121
Coeloides abdominalis 4979
C. sordidator 4979
Coffea arabica 3483
Coleogyne ramosissima 3002
Coleophora laricella 1222, 1698, 1750, 2316, 2332, 2333, 3641, 4222, 4265, 4273, 4275
Coleoptera 3632, 7203
Coleosporium spp. 4917
C. tussilaginis 4930
Coleotechnites spp. 1697, 6001
C. starki 3565
Colinus virginianus 446, 6061
C. virginianus ridgwayi 883
Colletogloeum protii 4929
Colletotrichum spp. 4926
C. acutatum 2917
C. gloeosporioides (see *Glomerella cingulata*)
Colobus hadius rufomitratus 1262
Colophospermum mopane 7314
Coloradia pandora 5002
Colotois spp. 1747
Colutea arborescens 5065
Comatricha aequalis 5347
Combretum imberbe 2518
Compsilura concinnata 6002
Comptonia peregrina 3486
Coniella castaneicola 1656
Coniferales, book 2622
Coniophora cerebella (see *Coniophora puteana*)
C. puteana 690, 3501
Coniothyrium fuckelii 4189, 4890
C. sporulosum 5372
Conocarpus erectus 3443
Conophthorus spp. 6191
C. coniperda 3653
C. edulis 3628
Contarinia inouyei 231
C. oregonensis 1728
Contortylenchus brevicomi 831, 840

Contortylenchus contd.
C. diplogaster 2342
Copaiba multijuga 6660
Copernicia alba 209
C. prunifera 209
Coptotermes formosanus 7207
Cordia alliodora 90, 277, 462, 466, 469, 475, 3460
C. dentata 277
C. elaeagnoides 277
C. hintonii 277
C. parvifolia 10
C. sonorae 277
Cordyceps spp. 4266
Coriolus unicolor 5488
Cornus florida 7, 257, 633, 2241, 3619, 4246
C. stolonifera 21, 3832
Corvus splendens 1857
Corylus spp. 4919
C. avellana 1834, 4854, 6801, 7039
C. colurna 6372
C. cornuta 4586, 6858
Corynebacterium spp. 5850
Coryneum cardinale 5664
Corythophora amapaensis 1577
C. labriculata 1577
Corythucha ciliata 3592
Costelytra spp. 1229
C. zealandica 1229
Cotoneaster divaricata 3211
C. lucida 2118
Cottus perplexus 890
Coudenbergia spp. 1553
Couepia bernardii 1580
C. guianensis 1580
Couratari spp. 4775
C. asterotricha 288
C. sandwithii 288
C. scottmori 288
Couroupita spp. 4775
Cowania stansburiana 5599
Crataegus crus-galli 1837
C. monogyna 407, 567, 1834, 4714, 6503
C. oxyacantha 397
C. sanguinea 2118
Crataeva spp. 1285
Cratoxylum glaucum 5914
Cristulariella depraedans 2877, 4916
Crocodylus palustris 1248, 4279
Croesia albicomana 1685
C. semipurpurana 5384
Cronartium spp. 7176
C. flaccidum 781, 2296, 2899, 3521, 3522, 3523
C. fusiforme 5516, 5521, 5526
biology and physiology 2298
control 4054, 4907, 4913
distribution maps 4907
effect on increment and yield 4907
interaction with fungi or bacteria 1651
laboratory culture 5357, 5358, 5359
resistance to 731, 737, 1197, 3515, 3516, 3517, 5969, 7100
in *Pinus* 1196, 3530, 5356, 5359
study methods 1196, 5357, 5358, 5359
symptoms 2298, 5356
C. quercuum 2296
C. quercuum echinatae 5969
C. quercuum fusiforme 2902, 7178
C. ribicola 352, 1195, 1609, 1647, 2296, 2297, 2300, 2877, 2903, 2905, 3514, 3518, 3528, 4168, 4170, 4171, 4906, 6183, 6185, 7171
Cruciferae 2798
Crumenulopsis sororia 2877, 4912
Cryphalus fulvus 3627
C. negrosensis 430
Cryptocarya spp. 1590
C. aschersoniana 2597
C. wightiana 6703
Cryptococcus fagisuga 1649, 1650, 4260, 6244
Cryptomeria japonica
biomass production 5723
chemical constituents 1956, 7052
crown, dimensions 6688
cytology 4144
diseases and disorders
foliage and shoot 5975
mycoplasmal 7191
ecology 4811
fertilizers 5617, 6432
Cryptomeria japonica contd.
flowering 4105, 6181
foliage, chemistry 6849
forest types 7052
genetics/breeding 6183, 7078, 7101, 7108
increment and yield 231, 1997, 6733, 6734, 6749
injury by
frost 4000, 4684, 4685, 6180
pruning 2449
insect pests, Lep. 4968
leaf, morphology 7078, 7101
measurement, tree and stand 2646, 3320, 6686, 6688
mycorrhiza 4858
nursery management 6457
nutrition 6432, 6849, 7052
palaeoecology 7043
phloem 5723
physiology 6491
plantations in, Japan 7052
planting stock 1956
pollen 7038
propagation by layering 2547
propagation, vegetative 3834
provenance studies 6385
pruning 5658, 6606
seed, physiology 6181
silvicultural systems 6491
stand development 6686
successional role 7038
thinning 1997
tissue culture 3203, 3204
variation 7078
weed control 4811
wood
anatomy
abnormal 4783
branchwood 6964
cambium 4783
cell-wall 4774
chemistry 6989
yield studies 3294
Cryptoporus volvatus 2970
Cryptorhynchus lapathi 6012
Cryptosphaeria populina 4909
Cryptostroma corticale 3525
Ctenarytaina eucalypti 7219
Ctenopelma spp. 5423
Ctenopseustis obliquana 1217
Cunninghamia konishii 6386, 6466
C. lanceolata 2098, 2107, 3543, 4926, 4931, 6612, 6987
Cupressaceae 5372
Cupressocyparis spp. 154
C. leylandii 171, 409, 1710, 2148, 3497, 6114
Cupressus spp. 152, 154, 156, 163, 165, 166, 171, 175, 178, 409, 3579, 3580, 5343, 7174
C. arizonica 157, 159, 161, 173, 2894, 6555, 6556, 6558, 6561
C. atlantica 155, 601, 7071
C. corneyana 7025
C. dupreziana 87, 155, 7071
C. glabra 2148
C. governiana 2148
C. lindleyi (see *Cupressus lusitanica*)
C. lusitanica 997
C. macrocarpa 161, 162, 2148, 2894
C. sempervirens 153, 157, 158, 159, 160, 161, 162, 164, 168, 169, 170, 172, 173, 176, 177, 1164, 2910, 3497, 4936, 4937, 5070, 5664, 6902
C. sempervirens horizontalis 6556
C. torulosa 5775
Curculio dentipes 7206
Curculionidae 1678, 1720
Curtisia dentata 128
Cuscuta spp. 5183
Cussonia spp. 5825
Cyathea spp. 2791
C. deckenii 2791
Cybianthus spp. 2789
C. colombianus 2789
Cycas revoluta 6145
Cydia araucariae 3586
C. coniferana 5994
C. splendana 7206
C. strobilla 4204
C. youngana 4973
Cylindrobasidium evolvens 769
Cylindrocarpon destructans (see *Nectria radicicola*)
C. liriodendri 2283
C. willkommii 2898
Cylindrocladium spp. 2271, 6188
C. clavatum 771
C. floridanum 4157
C. macrosporum 7182
C. scoparium 4864
Cylindrosporium castaneae 7153
Cyllene caryae 7231
C. robiniae 7231
Cyprinidae 1858
Cytospora chrysosperma 5950
C. kunzei 7179
C. occulta 2904
C. rubescens 2909
Cyzenis albicans 7257
Dacrycarpus vieillardii 711
Dacrydium spp. 711
D. cupressinum 1070, 2583, 2584
D. franklinii 1312
Dactylocladus stenostachys 5914
Daemonorops spp. 7019
Dalbergia decipularis 1589
D. lanceolaria 6937
D. latifolia 1022, 5479, 6154, 6937
D. melanoxylon 6937
D. nigra 4233
D. rimosa 6937
D. sissoides 6154
D. sissoo 797, 1938, 3066, 3282, 5207, 5482, 6047, 6153, 6937
Dama dama 3655
Daniellia togoensis 2236
Daphne cannabina 5775
Dasineura laricis 3637, 5416
Dasychira argentata 4968
D. basiflava 2954
Datana integerrima 866
Deladenus siricidicola 1233, 4947
Delonix spp. 1924
Dendrocalamus giganteus 6664
D. latiflorus (see *Sinocalamus latiflorus*)
D. longispathus 2481
D. strictus 6159
Dendrocnide spp. 4531
D. cordata 4532
D. moroides 4532
Dendroctonus spp. 3649
D. adjunctus 1717
D. avulsus 5409
D. brevicomis 428, 829, 864, 1712, 2993, 4947
D. frontalis
attractants 5409, 6013
brevicomin 3568
frontalin 6015
frontalure 3567, 3648
verbenone 3568
biology and ecology 429, 831, 2959, 4235, 4236, 4240, 4241, 4947, 5406
conferences, symposia 2955
control 1752, 2968, 3647, 3648, 4267, 4269, 4945, 4947, 5011, 5409, 5411, 5523, 7225
damage by 824, 4984
data recording and processing 4984
detection 2968, 2969
dispersal 832, 3559, 3568, 3569
effect on increment and yield 2887
effect on succession 4244
forecasting 2345
host relations 1223, 4231, 5406
insect associates 827
parasites and predators 827, 831, 840, 3574, 3622
physiology 827
population studies and surveys 423, 1223, 2955, 3569, 3574, 4229, 4252, 4661
predisposing factors 2887, 5411
prevention 4269
resistance to 432, 1721, 5411, 7223, 7225, 7234
study methods 1223, 4229
systems analysis and simulation 832, 847, 2345, 2955, 2959, 7234
trapping 6013
D. micans 6023
D. obesus (see *Dendroctonus rufipennis*)

Dendroctonus contd.
D. ponderosae 838, 842, 1224, 2331, 2339, 2341, 2355, 2996, 3571, 3624, 4195, 4243, 4245, 4249, 4250, 4251, 4253, 4944, 4986, 5410, 5431, 5558, 6772, 6773, 7233
D. pseudotsugae 841, 2322, 2349, 2355, 2883, 2970, 3629, 6022, 6032
D. rufipennis 826, 843, 844, 2355, 2883, 3625, 5408, 6016, 6018, 6190, 7236
D. simplex 2316
D. terebrans 6657
Dendroica kirtlandii 2375
Dendrolaelaps neodisetus 831
Dendrolimus spp. 868, 7255
D. pini 1211, 1751, 2315
D. punctatus 2983
D. spectabilis 2949, 5004, 5424, 5425
Dendromyza betulae 6972
Dendrophthoe falcata 4198
Dereodus pollinosus 1228
Desmazierella acicola 4188
Desmopsis spp. 4778
Diacrisia obliqua 3066
Diadegma laricinellum 4265
Diaporthe alleghaniensis 2877
Dichocrocis punctiferalis 7206
Dichrostachys nutans 7314
Dicladocerus japonicus 4265
D. westwoodii 4265
Dicotyledoneae, bibliography 2178
Dictyoloma spp. 1553
Didymascella thujina 7174
Dilodendron spp. 1553
Dineura viridiodorsata 850
Dioon holmgrenii 2790
Dioryctria spp. 876, 3643, 7216
D. abietella 1210, 3636
D. abietivorella (see *Dioryctria abietella*)
D. amatella 2941, 4956, 5399, 5993
D. disclusa 2940, 4211, 5010, 7215
D. ebeli 5399
D. pygmaeella 5399
D. reniculleloides 2336
D. taedae 4211
D. zimmermanni 414, 819, 4211
Diospyros cacharensis 718
D. melanoxylon 1583, 5324, 6151, 7049, 7296
D. mespiliformis 1262, 3420
D. texana 725, 3003
D. virginiana 4410, 5992
Diplodia spp. 3510
D. pinea 2289, 5951, 6191
D. pini 397, 4851
D. quercina 7172
Diprion spp. 1211
D. hercyniae (see *Gilpinia hercyniae*)
D. nipponica 4266
D. pini 1745, 2975, 2985
D. similis 1722, 4264, 4989, 7241
Dipsacaceae 2798
Diptera 1851, 7239
Dipterocarpaceae 1169, 1355, 1852, 2062, 3433, 3713, 3788, 3941, 4017, 4060, 4061, 4108, 4126, 4127, 4128, 4140, 4337, 4788
Dipterocarpoideae 4108
Dipterocarpus spp. 1355, 4126, 5220
D. alatus 4126
D. baudii 3816
D. chartaceus 3826
D. crinitus 6994
D. grandiflorus 4070
D. humeratus 3817
D. indicus 6673
D. intricatus 4126
D. kerrii 5679
D. kunstleri 4061
D. oblongifolius 2169, 3816, 4787, 4788
D. obtusifolius 4126
D. sublamellatus 6994
D. tuberculatus 4126
D. turbinatus 597
Dipteryx alata 90
Dirphia araucariae 3586
Discocainia treleasei 7179
Discula quercina 5402
Dothichiza populea 363, 366
Dothiorella gregaria 1653, 2299, 5362
D. ulmi 3529
Dothistroma pini (see *Scirrhia pini*)
D. septospora 3535, 4923
Drechslera monoceras 379
Drepanosiphum platanoidis 7243, 7244
Dreyfusia nüsslini (see *Adelges nordmannianae*)
Dryobalanops spp. 3816
D. aromatica 4061, 4788
D. lanceolata 4070
Dryocampa rubicunda 2954
Dryocoetes confusus 2883, 7230
Dryocosmus kuriphilus 853, 1723
Drypetes roxburghii 1550
Duguetia lanceolata 4776
Durio spp. 1852
D. griffithii 7013
D. oxleyanus 7013
Dyera costulata 1356
Earomyia grusia 2977
E. impossibilis 2977
Ecclinusa spp. 5285
E. guianensis 5285
Echinodontium tinctorium 2924
Ectropis bistortata 6010
Elachertus argissa 4265
Elaeagnus angustifolia 291, 903, 908, 4423, 5073
E. commutata 4155
E. mollis 3492
E. umbellata 7316, 7317
E. umbellatus 7
Elaeocarpus tuberculatus 6673
Elaeoluma spp. 3400
E. glabrescens 3400
Elaphidionoides parallelus 6019
E. villosus 6019
Elatobium abietinum 402, 799
Elephas maximus 1853
Elfia spp. 4973
Elytroderma deformans 5366
E. torres-juanii 4176, 4177
Empoasca spp. 4150
Enaphalodes rufulus 837, 2964
Enargia decolor 1209
Encephalartos laevifolius 1541
Endlicheria spp. 1590
E. balsamea 1573
E. paniculata 1573
Endocronartium harknessii 2906, 4169, 4902
Endospermum malaccense 282, 1914
E. peltatum 3842
Endothia parasitica 782, 783, 2301, 2904
biology and physiology 2912, 3524, 5360
control 2911, 2912, 3532, 3533, 5980, 7177
damage by 7153
ecology 7175
resistance to 4910, 5360, 6652, 7177
review 2295
Ennomos subsignarius 1685, 2954
Enterolobium spp. 1924
Entomophthora aulicae 3616
E. egressa 2334
E. myrmecophaga 4991
E. sphaerosperma 2334
Eperua falcata 2099
Ephedra nevadensis 3357
E. strobilacea 2161
E. viridis 7003
Epiblema tedella (see *Epinotia tedella*)
Epinotia aciculana 1215
E. tedella 5394, 7218
Epirrita autumnata 813
Episyrphus balteatus 5422
Erannis defoliaria 1747, 3639
Erica arborea 281
Ericaceae 5915
Eriocrania spp. 850
Eriogonum umbellatum 5065
Erionota thrax 2013
Ernobius kailidisi 4256
Erranis tiliaria 2954
Erwinia spp. 5850
E. salicis 2310, 2925, 4934
Erythrina spp. 90
E. poeppigiana 4765
Eschweilera alvimii 1578
E. compressa 1578
E. tetrapetala 1578
Essigella pini 2317
Eublemma amabilis 588
Eucallipterus tiliae 2997, 4208, 6244
Eucalyptus spp.
barking 4938
Eucalyptus spp. contd.
biomass production 2508, 3740
book 1151, 2182
burning, controlled 2589, 3739, 3740, 6928
conversion of stands 5272
coppice 76, 1432, 1814
dendrochronology 1312
diseases and disorders 4389, 6188
complex or unidentified 4794, 5985
decay 387, 789, 2284, 2888, 7167
foliage and shoot 39, 784
root 387, 789, 2284, 2886, 2888
seedling 4864
wilts, dieback 36, 37, 38, 39, 41, 4321
distribution 1823
farm woodlands 2420
fertilizers 3741
forest types 7053
fuel plantations 76, 530, 1337, 2516, 2517
genetics/breeding 82, 5331, 7117
honeydew 590
honey/nectar 589, 590
hydrology 1775
increment and yield 3262
injury by
molluscs 6042
salt 252, 5295
insect pests 39, 4389, 4938, 5985
Col. 420, 421, 431, 1243, 7219
Hem. 7219
Hym. 2972, 2994
Isopt. 1679
Lep. 821
litter/humus 642, 3726, 3740
logging 387, 1775
logging waste 2589
management 3262
mycorrhiza 5944, 5949
nursery management 194
nutrition 3724, 3739, 3740
plantations in
Brazil 6298
Brazil, Amazonia 3088
France 82
India, Rajasthan 2527
Italy 3198
Lesotho 2512
Libyan Arab Republic 1277
Mexico 4640
Pakistan 5583
South Africa 1432
USA, California 985, 3806
plantations on, grassland 41
propagation, vegetative 6420
protection and preservation 1822
provenance studies 3261, 5585
regeneration, natural 2589, 6928
seed, collection 3451
shelterbelts 4335
silviculture 1432, 3262
soil requirements 2094, 3742, 7053
taxonomy 6148
tissue culture 2549, 6420
weedkillers, effect of 6549
wildlife 7285, 7286
E. (*Monocalyptus*) 7053
E. (*Symphyomyrtus*) 7053
E. alba 85, 1124, 1431
E. alba × *E. saligna* 1431
E. alba × *E. tereticornis* 1431
E. amygdalina 818
E. botryoides 746, 2577, 5244, 5583
E. brassiana 3192
E. calophylla 1816, 5295
E. camaldulensis
acoustic properties 6902
coppice 1965
fertilizers 1364
flowers 4840
fuel plantations 2510
genetics/breeding 3449
growth regulators, effect of 3227
hybrids 3449
injury by
gases and fumes 3383
nematodes 6030
salt 5243, 5295
insect pests, Hem. 39
irrigation 5244
measurement tables 5212
nutrition 5244

Eucalyptus camaldulensis *contd.*
plantations in
Malawi 2510
Mexico 4640
Swaziland 2518
Tanzania 2577
USA, south-eastern 196
planting stock 7001
provenance studies 2567, 2577, 5583
seed, collection 3454
shelterbelts 5070, 6030
variation 4840
E. charybdis 746
E. citriodora 533, 1431, 4640, 5482, 5555, 6650
E. cloeziana 554, 2518, 3192
E. coccifera 1346
E. crebra 2577, 5583
E. crenulata 4923
E. cypellocarpa 4923
E. dalrympleana 1546
E. deglupta 85, 401, 466, 2598, 6299, 7071
E. delegatensis 746, 1014, 2108, 2876, 2973, 3462
E. diversicolor 4006
E. dives c 1060
E. dunnii 3192
E. erythrocorys 5295
E. erythronema 5583
E. exserta 5555
E. fasciculosa 39
E. fastigata 746, 2046, 2876, 6810
E. globoidea 3503
E. globulus
biomass production 3739
coppice 1965
diseases and disorders, foliage and shoot 395, 1658, 4924
fertilizers 3213, 3739
fungi associated with 395
hydrology 1778
increment and yield 1922, 2033
injury by
gases and fumes 3383
salt 5295
irrigation 5244
nutrition 3739, 5244
plantations in, China 5555
protection and conservation 7071
provenance studies 3192, 3448
seed, sources of supply 3192
E. globulus bicostata 6188
E. gomphocephala 1812
E. grandis
biomass production 981, 4587
coppice 1052, 1432
diseases and disorders, foliage and shoot 3545
fertilizers 553, 554, 1126, 1979, 3221
fuel plantations 2510, 2515
genetics/breeding 959, 1613
increment and yield 553, 3221
insect pests, Isopt. 4949
irrigation 5244
light relations 1929
mixtures 1022
nursery management 1929
nutrition 1126, 3368, 5244, 5836
plantations in
Australia 5254
Brazil 1431
India, Tamil Nadu 1022
Malawi 2510
South Africa 1432
Swaziland 2518
USA, Florida 959
USA, south-eastern 196
provenance studies 3192
pruning 580
seed
collection 3455
germination 1929
sources of supply 3192
seedlings 554
site preparation 1979
soil, effect on 5254
soil requirements 3368
weed control 1979
wildlife 1766
E. grandis* × *E. tereticornis 2567, 2577
E. grossa 5295
E. gummifera 2760, 2761, 2762
E. incrassata 5295
Eucalyptus *contd.*
E. intertexta 2510
E. kitsoniana 5583
E. laevopinea 5254
E. largiflorens 5295, 5583
E. lehmannii 5295
E. leucoxylon 4640, 7035
E. macarthuri 196, 5583
E. maculata 5254, 7159
E. maidenii 2510
E. marginata 255, 383, 390, 416, 655, 906, 1640, 1816, 1818, 2884, 2885, 2951, 3502, 3740, 4006, 5071, 7134
E. melliodora 2567, 2577
E. microcarpa 7035
E. microcorys 2568, 4690, 7168
E. microtheca 2510, 2567, 3192
***E.* 'Mysore hybrid'** 762, 1124, 1490, 1500, 1776, 1791, 2577, 2594, 3192, 3996, 5583, 6049, 6542, 6750
E. neglecta 5295
E. nitens 746, 1014, 2046, 2876, 3192
E. nitida 1346
E. nova-anglica 196, 2262
E. obliqua 280, 746, 1561, 1922, 2033, 2780, 3503, 5447, 6188, 6850, 6851
E. obliqua* × *E. regnans 1922
E. paniculata 1124, 2510, 2577
E. pauciflora 3739, 3740
E. pellita 2510
E. pilularis 4690, 7053
E. polybractea 1060
E. polycarpa 5583
E. populnea 1165
E. punctata 2510
E. radiata australiana 1060
E. regnans
allelopathy 4827
biomass production 3740
diseases and disorders, root 3503
genetics/breeding 746
hydrology 5447
increment and yield 1922, 2033
mycorrhiza 2876
nursery management 1390
nutrition 3740
planting stock 1390
regeneration, natural 4827
thermal relations 6810
wood, physical and mechanical properties 1135
E. resinifera 2577
E. robusta 196, 959, 981, 1124, 2577
E. rudis 5583
E. saligna 746, 1014, 1124, 1431, 2563, 2867, 2876, 5219, 5254, 5652, 6810
E. sideroxylon 2567
E. sieberi 1135, 2876, 3213, 3503, 5254, 7159
E. st-johnii 4855, 5948
E. tereticornis 196, 1076, 1124, 1156, 2510, 2567, 2577, 2594, 2599, 3192, 3449, 3454, 3545, 4949, 5295, 5633, 6826, 6973
***E. tereticornis* '12ABL'** 2567
E. urophylla 85, 2598, 3192, 5140
E. viminalis 196, 280, 818, 981, 2597, 5254, 7053
E. wandoo 1816, 1818
E. woodwardii 5295
***E.* 'Zanzibar C'** 2567, 2577
Eucnemidae 2350
Eucolaspis brunnea 1227
Eucosma tocullionana 3653
***Eudrilus* spp.** 647
***Eugenia* spp.** 1494
E. acuminatissima 5914
E. mcvaughii 1567
E. palembanica 5914
E. stipitata 470
Euhamitermes lighti 4950
Eulachnus agilis 3590
E. rileyi 1212
Eulophonotus obesus 6008
Euonymus europaeus 6557
Eupatorium odoratum 4859
***Euphorbia* spp.** 525
Euphorbiaceae 1581, 2774, 4128, 7030
Eupithecia abietaria 4204
Euproctis chrysorrhoea 823, 2984, 3616, 5001, 5387, 5432
E. similis 407, 806
Europhium clavigerum 4195
Eurya japonica 4498
Evetria buoliana (see *Rhyacionia buoliana*)
Excirolana bowmani 2354
Excoecaria agallocha 4488
Exobasidium sakataniense 3538
Exochomus quadripustulatus 7210
Exoteleia dodecella 1678
Fabrea thumeni 397
***Fagus* spp.** 4812
F. crenata 538, 1202, 2100, 3407, 5824, 6501, 7044, 7045
F. grandifolia
biomass production 2048, 3953
control, chemical 141
diseases and disorders
canker, bark diseases 1652
decay 7156
root 7156
habit 3236
increment and yield 1462, 6693
litter/humus 1501
management 6494
measurement tables 6693
measurement, tree and stand 4567, 6677
phenology 3236
pollards 2620
regeneration, natural 127, 3236
site quality 1462, 2663, 6728
successional role 3436
tending, general 1837
thinning 6494
variation 6677
F. japonica 2100, 7044
F. moesiaca (see *Fagus sylvatica*)
F. orientalis 123, 2235, 3823, 4550
F. orientalis* × *F. sylvatica 4064
F. sylvatica
biomass production 2051
browse 880
cleaning 6597
control 3888
control, chemical 3252
conversion of stands 4388
coppice 1966, 5191, 5726, 6493
diseases and disorders
canker, bark diseases 1649, 1650, 2164, 2898, 3531, 5355, 5402
decay 2891
foliage and shoot 5402
ecology 1250
economics 2040, 2041, 2630, 2692, 5735, 6802
farm woodlands 7349
fertilizers 3033, 6443
forest types 1422, 2234, 2855, 3269, 6674, 6881, 7055
genetics/breeding 349, 4841
hedgerow trees 905
hydrology 3033, 7297
increment and yield 2040, 2041, 2147, 2658, 2697, 2706, 3307, 3937, 5726, 5735, 6597
injury by
artificial wounding 6897
deer 5038, 6059
drought 2705, 3350
dust 6873
game 4289
gases and fumes 1516, 2124, 5402, 6882
logging 5958
rodents 442, 6062
salt 2123
snow 6882
sunscorch 2692
insect pests
Col. 3267
Hem. 5402, 6244
Lep. 407
interplanting in, conifers 4001
interplanting with, broadleaved species 5638
light relations 6498
litter/humus 641, 1497, 2092, 2101, 2712, 6881
logs
assortments 2653
grading 4656
management 1105, 1106, 2675, 3267, 5626, 6240, 6470
measurement tables 2697, 3295, 5726
measurement, tree and stand 2678, 3288, 5693, 5742

Fagus sylvatica *contd.*
mixtures 2040, 2041, 6617
mycorrhiza 754, 1624, 3489
nursery management 1382, 6560
nutrition 754, 1497, 2112, 6856
ornamental value 905
phenology 2147, 4766
physiology 4091
plantations on
marginal, waste, degraded land 3680
mining wastelands 3680
roadsides 407
planting methods 4503, 4523, 6503
provenance studies 91, 3465
regeneration, artificial 5638
regeneration, natural 2040, 3235, 3268, 3862, 3937, 6498
roots, growth 4523
seed 3862
edible 586
fodder 586
germination 2538
storage 2538
shelterbelts 905
silvicultural systems 565, 2587, 4490, 5626
silviculture 1429, 1650, 2630, 3267, 6257, 6617, 6802, 7282
site quality 2706, 2745, 5715
soil
effect on 1118, 2112, 2113, 6856
fauna 2101
soil requirements 2103
stand density 5692
stand development 5889
stand quality 6674
stand structure 2855, 3269, 3288, 3937, 4289, 4490, 5692, 6232
successional role 300
tending, general 6470, 6581
thinning 669, 5650, 6582, 6592, 6597, 6644
tissue culture 2891
underplanting in, broadleaved species 5757, 6624
virgin forest 3288, 3937, 4289, 5692
water relations 2103
weed control 576, 1409, 6554, 6559, 6560
weedkillers, effect of 6559, 6560
wildlife 7278, 7282
wood
anatomy 6941
abnormal 6888
density 669
heartwood/sapwood 6897
physical and mechanical properties 669, 6941
Faidherbia albida (see *Acacia albida*)
Falcatifolium taxoides 711
Fallugia paradoxa 5599
Fenusa pusilla 439
Ferreirea **spp.** 2175
Ficus **spp.** 5489
F. altissima 2451
F. aurea 2451
F. bengalensis 2451
F. benjamina 2451, 3526
F. carica 1236
F. indica 2451
F. racemosa 4075
F. retusa 6902
F. sycomorus 1262
Fomes annosus (see *Heterobasidion annosum*)
F. applanatus (see *Ganoderma applanatum*)
F. connatus 2281
F. fraxinophilus 4159, 4160
F. lignosus (see *Rigidoporus lignosus*)
F. marginatus (see *Fomitopsis pinicola*)
F. pinicola (see *Fomitopsis pinicola*)
Fomitopsis pinicola 2970
Formica aquilonia 813, 1749
F. lugubris 1743, 1744, 1749, 1750
F. nigricans 1747
F. polyctena 1745, 1747, 1749, 1751, 4991
F. pratensis 1747
F. rufa 1746, 1747, 1748, 1749, 1751, 4991, 7242, 7243, 7244
F. truncorum 1747
F. yessensis 5424, 5425
Frankia **spp.** 3486, 4155
Fraxinus **spp.** 2124, 5992, 7385

Fraxinus *contd.*
F. americana
bark, anatomy 1154
biomass production 3953
calorific value 269
foliage, chemistry 664
forest types 2241
general information 3263
genetics/breeding 5937
increment and yield 1462
injury by, gases and fumes 1516, 2740, 3380
management 6500
mixtures 3865
nursery management 194
planting stock 135
regeneration, artificial 1028, 1029
regeneration, natural 6500
roots, growth 135
seed, storage 193
site preparation 6505
site quality 1462, 2663, 6728
tending, general 1837
tree surgery 3703
variation 5937
weed control 6505
F. angustifolia pannonica 6940
F. caroliniana 5249
F. excelsior
coppice 587
diseases and disorders, canker, bark diseases 2923, 3549, 4933
economics 6801
forest types 6107, 7387
general information 3263
genetics/breeding 4842
hedgerow trees 905, 1834
increment and yield 2697, 7379
injury by
gases and fumes 1516
grazing 567
rodents 442
insect pests, Lep. 6005
irrigation 3880
leaf, anatomy 6998
measurement tables 2697
ornamental value 905
phloem 6998
plantations on
dry sites 3350
erodible sites 1788
marginal, waste, degraded land 3680
mining wastelands 3680
watersides 5041
protection forest 2393
regeneration, natural 567
seed
chemistry 6401
germination 993
morphology 6401
seed orchards 5939
treatment 993, 6401
shelterbelts 905
silviculture 2007, 6631, 6801
translocation 6998
transpiration 4016
water relations 4016
weed control 6559, 7379
weedkillers, effect of 6559
F. nigra 1462, 2452, 2663, 6677
F. ornus 6998
F. oxycarpa 4067
F. pennsylvanica
bark, anatomy 1154
cambial activity 7004
diseases and disorders, decay 4159, 4160
fertilizers 1047
general information 3263
genetics/breeding 4842
increment and yield 189
injury by, gases and fumes 1516, 2740, 3383, 3385, 6876, 6887
insect pests, Lep. 1242, 2328, 2329, 2929
irrigation 6846
nursery management 187, 194
plantations in, USSR, Russian region, south-eastern 3679
planting methods 1833, 2452
planting stock 1047, 2452
protection forest 4423
provenance studies 534, 7004
regeneration, artificial 195
regeneration, natural 188

Fraxinus pennsylvanica *contd.*
research 195
seed
seed orchards 4423
storage 193
shelterbelts 2929, 6846
site quality 4688
site requirements 4688
F. profunda 5249
F. uhdei 1042
F. velutina 1047
Fusarium **spp.** 1626, 2271, 5341, 5344
F. culmorum 789
F. oxysporum 385, 1628, 2272, 3510, 3511, 3544, 4866, 7151
F. oxysporum pini 5163
F. solani 366, 1618, 4866, 6028
Fusicladium pongamae 3498
Galerina **spp.** 5943
Galerucella luteola (see *Pyrrhalta luteola*)
Galleria mellonella 3624
Gallesia **spp.** 2175
Gambeya **spp.** 3403
G. excelsa 3403
Ganoderma applanatum 3504
G. atkinsonii 2878
Ganua motleyana 1595
Garcinia **spp.** 7013
G. forbesii 7013
G. hermonii 4127
G. parvifolia 1852, 7013
Garuga pinnata 5831
Gayella splendens 5284
Gibberella fujikuroi 5952
Gigaspora **spp.** 1620
G. gigantea 5467
Gilletteella cooleyi 4207, 6040
Gilpinia frutetorum 4989
G. hercyniae 399, 849, 855, 1727, 2931, 2976, 5413
G. pallida 435
Ginkgo biloba 924, 1516, 1840, 5374, 5488, 6778
Gleasonia **spp.** 1557
Gleditsia triacanthos 114, 257, 926, 3679, 4410, 4423, 5361, 6372, 7385
G. triacanthos inermis 924, 1516, 3200, 3865, 4703
Glena bisulca 3578, 3580
Glenniea **spp.** 4127
G. unijuga 4127
Gliricidia maculata 5476, 5477
G. sepium 1153, 5474, 5479
Glochidion laevigatum 6994
Glomerella cingulata 4872, 4922
Glomus **spp.** 1620
G. etunicatus 752
G. fasciculatus 457, 3211
G. macrocarpus 4859
G. mosseae 457, 7143
Glypta fumiferanae 2981, 2982, 4972, 4975
G. inversa 2953
Glyptocolastes **spp.** 4234
Gmelina **spp.** 530
G. arborea
bibliography 6138
fertilizers 4009
fruit 1357
general information 6138
insect pests, Hym. 4257
plantations in
Brazil 6297, 6298, 6299
Brazil, Amazonia 3088
Kenya 2567
Mexico 2528
Tanzania 2577
Zambia 202
provenance studies 2577
seed
collection 1357
germination 7014
silviculture 6138
soil requirements 4009
wood
anatomy, cambium 4773
pulp and pulping 5140
G. asiatica 5368
Gnathotrichus retusus 1226
Gnomonia errabunda 5402
G. leptostyla 2922, 5364
G. pseudoplatani 3537
Gomphiluma **spp.** 3404
Goniorrhachis marginata bahiana 289

Gonipterus scutellatus 7219
Gonometa podocarpi 2937
Gordonia lasianthus 5696
Gossweilerodendron balsamiferum 7071
Gossyparia spuria 5387
Gremmeniella abietina 1645, 1648, 2893, 3534, 4172, 4248, 4891, 4894, 4905, 7147
Grevillea robusta 2406
Grewia asiatica 6186
G. obtiva 6150
G. oppositifolia 6662
Grypocentrus albipes 439
***Guarea* spp.** 1260
Guatteria australis 4776
Guiglia schauinslandi 1232
Guignardia aesculi 397, 4872
Guttiferae 2774
Gymnocladus dioicus 2096, 3200
Gymnosporangium clavipes 2900
Gyromitra esculenta 3914
Haemostereum sanguinolentum (see *Stereum sanguinolentum*)
Haloxylon aphyllum 1596, 2161, 2350, 3360, 4423, 4487, 4767, 5784, 6283
H. persicum 2161, 6283
H. salicornicum 3009
Halyomorpha mista 6188
Hamamelis virginiana 2344
Hammada salicornica (see *Haloxylon salicornicum*)
***Hebeloma* spp.** 1880
H. crustuliniforme 754, 759, 1880, 2875, 4153
H. cylindrosporum 2266
H. fragilipes 4153
H. mesophaeum 4153
H. sacchariolens 4153
Hedera helix 1170, 2858, 7036
Heliostibes stychioides 1219
Helix aspersa 6042
Hemileuca maia 773
***Henriquezia* spp.** 1557
Heritiera littoralis 2483
H. minor 4488
Hernandia cordigera 5299
Herpotrichia nigra 4862
Heterobasidion annosum
- assessment 4873, 4874, 5957, 6573, 6586
- biology and physiology 4885, 4886, 4887
- conferences, symposia 1629, 1630, 1631, 1634
- control 1205, 1641, 2274, 4054, 4163, 4196, 4874, 4879, 5954, 6454, 7086, 7165, 7196
- damage by 690, 707, 2882, 4164, 5844, 5961
- data recording and processing 3506
- ecology 1193, 5346, 5961, 7162
- effect on increment and yield 2282, 2887
- identification 388, 5346, 5954
- interaction with fungi or bacteria 4163
- interaction with insects 2883, 2887
- resistance to 1029, 1971, 2891, 3506, 4889
  - in *Picea* 770
- role of wounds 769
- soil-borne infection 4164
- study methods 2891, 4889
- stump, treatment 7196

Heterocampa guttivitta 2954
Heterorhabditis bacteriophora 2958
***Hevea* spp.** 222
H. brasiliensis 2624
Hexacolus guyanensis 2351
Hibiscus syriacus 7120
Hippophaë rhamnoides 903, 908, 2162, 4892, 5862, 6086, 6651, 7248, 7328
Hirschioporus abietinus 2330
Hirtella barnebyi 1580
H. confertiflora 1580
Holarrhena antidysenterica 4819, 5324
Holcocera pulverea 588
Holigarna grahamii 1066
***Hopea* spp.** 1355, 3816
H. acuminata 4061
H. bancana 4070
H. ferrea 6903
H. glabra 2169
H. helferi 4787, 4788
H. mengarawan 3827, 4070
H. parviflora 6673
H. pedicellata 3858
Hyblaea puera 2357
Hydnangium carneum 5944
Hydnobolites cerbriformis 3361
Hydria prunivorata 2954
***Hylastes* spp.** 4237
***Hylemya* spp.** 4973
Hylobius abietis 835, 1210, 2347, 4254, 4945, 6189, 6190, 7201
Hylurgopinus opaculus 422, 836
H. rufipes 836, 2340, 2367, 3623, 7146
Hylurgus ligniperda 1733
Hymenaea stilbocarpa 90
Hymenogaster albus 2876
Hymenoptera 7239
***Hyperiodrilus* spp.** 647
Hyphantria cunea 856, 2954, 2984, 2986, 5421, 6009
Hypodermella sulcigena (see *Lophodermella sulcigena*)
Hyposoter takagii 5004
Hypoxylon deustum 5355
H. mammatum 316, 364, 365, 2294, 7144
H. pruinatum (see *Hypoxylon mammatum*)
Hypsipyla grandella 811, 2528, 4958
Ibalia leucospoides 1232
I. leucospoides ensiger 1232
Ichneumonidae 1678
Ilex aquifolium 3481, 5774
I. cornuta 1171, 2448
I. dipyrena 5775
I. glabra 673, 6866
I. hypoglauca 5914
I. verticillata 4586
Illicium religiosum 7052
Imbrasia cytherea 417
Inga edulis 469, 470
I. jinicuil 3483, 3484
I. sapindoides 7032
I. spuria 462
I. vera 3483
***Inocybe* spp.** 1880, 2875
I. lanuginella 4153
Inonotus andersonii 4883, 7158
I. obliquus 3505, 6208
I. rheades 3504
I. tomentosus 5348
I. weirii 1205, 1478, 1633, 2005, 2274, 3500, 4162, 4165, 4875, 5485, 5961
Intsia palembanica 2170
***Ips* spp.** 3620, 6657, 7221
I. acuminatus 4237
I. amitinus 424, 4982
I. avulsus 4235, 6013
I. calligraphus 4235, 6013
I. cembrae 7259
I. duplicatus 4237
I. grandicollis 834, 4235, 6013
I. interstitialis 430
I. paraconfusus 830, 3894, 4978
I. pini 3557, 3621
I. plastographus maritimus 5404
I. sexdentatus 2342, 4237
I. subelongatus 6190
I. typographus 7226
- attractants 839, 877, 1715, 2348
  - ipsdienol 4237
  - methylbutenol 4237, 4238
  - typolur 4238
  - verbenol 4237
- biology and ecology 6017, 6190
- control 2348, 3652
- damage by 2967, 7201
- detection 2967
- forecasting 425, 4982
- identification 1225
- parasites and predators 839
- population studies and surveys 2348
- predisposing factors 770
- repellent pheromones 1715
- resistance to 770
- study methods 2967
- trapping 877, 1715, 2348, 4238

Irvingia gabonensis 7071
Isoberlinia doka 2236
Itaobimia magalhaesii 1548
Itoplectis behrensii 411
***Jacaranda* spp.** 1553
J. amazonensis 1571
J. mimosifolia 6974
Jessenia batua 1260
Joannesia princeps 90
Judolia sexmaculata 400
Juglandaceae 5290
Juglans cinerea 1029, 1837, 3865
J. nigra
- diseases and disorders 1207
  - canker, bark diseases 391
  - decay 1635
  - foliage and shoot 2922, 7183
- economics 7323
- fertilizers 7, 2922
- foliage, chemistry 1511
- genetics/breeding 7183
- growth regulators in 2159
- increment and yield 4603, 6999
- insect pests 1207
  - Lep. 866
- irrigation 6999
- measurement, tree and stand 2021
- mixtures 3865
- nursery management 194, 4469
- phenology 6999
- plantations in
  - Canada, Quebec 6797
  - Czechoslovakia 6372
- plantations on, mining wastelands 7323
- planting stock 135
- pruning 5955
- regeneration, artificial 1029
- roots, growth 135, 4469
- seed, germination 2539
- silviculture 1429
- site preparation 6505
- soil cultivation 5785
- soil requirements 5785
- water relations 633, 6999
- weed control 6505, 6559
- weedkillers, effect of 6559
- wood
  - defects 5955
  - heartwood/sapwood 2159
  - stain 5955

J. nigra* × *J. regia 1612
J. regia
- diseases and disorders
  - canker, bark diseases 2299
  - foliage and shoot 1666, 2926, 5364
  - virus 1666, 2926, 5377
- fruit 1811
- genetics/breeding 1183, 5933
- hydrology 7294
- irrigation 6846
- plantations in, USSR, Transcaucasia 4413
- pollen 4104
- roots, systems, distribution 6510, 6846
- shelterbelts 6846
- silvicultural characters 2632
- soil 7294

Julbernardia globiflora 2606
***Juniperus* spp.** 409, 767, 795, 1710, 2894, 4952, 5023
J. ashei 725, 3003, 3251
J. barbadensis 4239
J. bermudiana 7071
J. chinensis 118, 1171, 2448, 5262
J. chinensis pfitzeriana 1008, 1841
J. communis 3497, 5151, 6083
J. deppeana 1545, 3803
J. excelsa 5293, 5322, 5596
J. macropoda 5293
J. monosperma 6, 1545, 3803
J. occidentalis 1617, 2370, 2755, 4527
J. osteosperma 6, 1473, 1545, 2025, 2035, 2036, 2138, 2239, 2496, 2654, 3320, 3922, 3933, 4634, 4639
J. oxycedrus 4033
J. phoenicea 5070
J. pinchoti 3003, 3251
J. polycarpos 5150
J. procera 6287, 7071
J. pseudosabina 5293
J. sabina 409
***J. sabina* 'Tamariscifolia'** 8
J. scopulorum 305, 1191, 1545, 2025, 4893
J. squamata 5293
J. turcomanica 2314
J. turkestanica 935
J. virginiana 118, 305, 633, 1191, 2900, 3193, 4893
J. wallichiana 5293
Kabatina juniperi 1191, 4893
K. thujae 2894, 5372
Kalmia angustifolia 1980
K. latifolia 4246, 4676
Kaltenbachiola strobi 4204

Kerria lacca 588
Khaya grandifoliola 1459
K. ivorensis 811
K. nyasica 811, 4234
K. senegalensis 811
Kingia australis 934
***Klebsiella* spp.** 5850
***Knema* spp.** 7013
***Koelreuteria* spp.** 1553
Koompassia malaccensis 1595
Korunomyces terminaliae 1201
Krameria parvifolia 3357
Laccaria laccata 1880, 2875, 4845, 7151
L. lactata 4153
Laccifer lacca (see *Kerria lacca*)
***Laccinum* spp.** 1880
***Lachnellula* spp.** 1199, 4914
L. rehmii 2877
L. willkommii 2908, 5970
Lacmellea panamensis 7032
***Lactarius* spp.** 4856
L. deliciosus 873
L. pubescens 1880, 4153
L. rufus 1622
Laetiporus sulphureus 2891, 7158
Lafoensia pacari 2597
Lagerstroemia indica 3282
L. lanceolata 2042
L. parviflora 2545
L. speciosa 3282
Laguncularia racemosa 3443
Lambdina fiscellaria 2330, 2334
L. fiscellaria lugubrosa 3126
Lamprosema lateritialis 6000
Lannea coromandelica 6702
Lansium domesticum 1852, 7013
Lantana camara 1040, 4528
Lanugo retentor 4957
***Larix* spp.**
cleaning 3254
diseases and disorders
canker, bark diseases 2908, 4914
foliage and shoot 1661
stem rusts 4920
farm woodlands 7349
genetics/breeding 6182
injury by, nematodes 2978
insect pests
Col. 1229
Hym. 4266, 4990
Lep. 1217, 1750, 2323, 3594, 3641, 4216
logging 450
management 1105
plantations in
Finland 1682
USSR 5588
propagation by grafting 3833
remote sensing 4667
resin-tapping 3280
shoot, growth and development 3411
stand density 6578
thinning 1415
water relations 6078
L. cajanderi 6983
L. dahurica (see *Larix gmelinii*)
L. decidua
arthropods associated with 207
chemical constituents 2778
cover crops 1365
dendroclimatology 6128, 6130, 7389
diseases and disorders
root 2311
witches' brooms 2311
fertilizers 1365, 3033, 5159
flowering 2785
forest types 6674
genetics/breeding 3467, 7070
growth regulators, effect of 2785
honeydew 207
hybrids 2866
hydrology 3033, 3041
increment and yield 410, 1048, 1978, 2147, 2866, 5159
injury by
gases and fumes 6371
recreational activities 3696
snow 3046
insect pests 2932
Col. 7259
Lep. 410, 1222, 1682
interplanting in, conifers 4001
irrigation 3880
Larix decidua *contd.*
mixtures 1048, 5159
nursery management 1382, 2564
nutrition 2778
phenology 2147
physiology 1222
plantations in, Poland 2932
plantations on, subalpine sites 3052
protection forest 3027
provenance studies 1222, 2311, 3465, 3467
regeneration, artificial 1029
resin-tapping 1445
sap 3642
seed
production 3465
treatment 3821
silvicultural systems 1967
silviculture 1048, 3027
soil 6854
spacing 1978
stand quality 6674
weed control 6559
weedkillers, effect of 6559
L. decidua polonica 2147
L. decidua* × *L. leptolepis 285, 2866
L.* × *eurolepis 73, 285, 1612, 3687, 7187
L. gmelinii 4818, 5416, 6983
forest types 728, 2189
ground cover 2189
insect pests, Lep. 1682
regeneration, natural 124, 5690
stand structure 6683
thinning 6683
L. kaempferi (see *Larix leptolepis*)
L. laricina 302, 433, 795, 1081, 1082, 1707, 1724, 1788, 1910, 2316, 2396, 2697, 2705, 2784, 2932, 2950, 3244, 3954, 4259, 4590, 5970, 6408, 6720, 6798, 7213
L. leptolepis 3359, 3435
diseases and disorders 2311
foliage and shoot 4925, 7186
stem rusts 4925
fertilizers 4462
foliage, chemistry 6849
genetics/breeding 306
hybrids 2866
increment and yield 2697, 2866, 6705
injury by, gases and fumes 6371
insect pests
Hem. 7209
Lep. 6010
irrigation 4462
measurement tables 2697
nutrition 6849
photosynthesis 6180
plantations in, Poland 1130
plantations on
marginal, waste, degraded land 3680
mining wastelands 3680
polluted sites 1130
planting methods 6503
provenance studies 1923, 3822, 5139
seed
germination 3822
weight 3822
soil 4462
soil requirements 6705
stump, flora and fauna 4254
underwood 6624
variation 306
L. lyallii 6408
L. occidentalis 112, 1537, 1597, 1668, 1682, 1698, 2026, 2082, 2333, 2723, 2932, 3244, 3482, 4578, 4687, 4762, 5267, 5745, 6191, 6408, 7370
L. sibirica
anatomy 6938
cambial activity 1562, 4082, 5829
chemical constituents 1562, 4785, 4786, 5829
cone, measurement 4424
dendrochronology 7391
growth regulators in 1562
increment and yield 4505
insect pests 400
Dipt. 3637, 5416
Lep. 1682
oils 4786
photosynthesis 1562, 4789
physiology 1562
plantations in
USSR, Central Asian republics 4507
Larix sibirica *contd.*
plantations in *contd.*
USSR, Russian region, south-eastern 4505, 5054
plantations on
erodible sites 5054
marginal, waste, degraded land 4310
mining wastelands 4310
planting season 4507
seed, seed trees and stands 3637
shelterbelts 901
site preparation 5054
site requirements 3244
spacing 6889
water relations 901, 4790
wood
anatomy 4770
variation with growth factors 6889
L. sukaczewii 5221, 6613, 6933
Larrea tridentata 3357
Lasconotus pusillus 3620
L. referendarius 3620
Lasiomma anthracina 4204, 7246
Lasiosiphon eriocephalus 3418
Lathrolestes nigricollis 439
Lauraceae 716, 1591, 4074, 4128
Lawsonia glauca 6542
***Lecanosticta* spp.** 1200
L. acicola (see *Scirrhia acicola*)
Lecythidaceae 4775
***Lecythis* spp.** 1577
L. ampla 712
L. barnebyi 1577
L. lanceolata 712
L. pisonis 712
L. pisonis usitata 712
L. tumefacta 712
Ledum palustre groenlandicum 1933
***Leea* spp.** 1553
Leguminosae 1568, 2774, 5290, 5521, 7041
Leipoaxis peraffinis cinerascens 1694
Leleba (see *Bambusa*)
Lentinus edodes 2640
Leonia cymosa 1555
L. glycycarpa 1555
Lepidoptera 808, 4974, 7217
Leptodontidium beauverioides 769
Leptoglossus corculus 3643, 3653, 4205
Lepus americanus 6499
L. brachyurus 7284
Lespedeza bicolor 6451
***Leucaena* spp.** 6139
L. glauca (see *Leucaena leucocephala*)
L. leucocephala 530, 679, 680, 983, 2510, 3829, 5474, 5476, 5477, 5479, 6837
Leucoma salicis 822, 823, 2986, 7251
***Leutzelburgia* spp.** 2175
***Libertella* spp.** 4909
L. faginea 5402
***Libocedrus* spp.** 711
L. bidwillii 3441, 4779
L. decurrens 1617, 2148, 5597, 6661
L. plumosa 4779
***Licaria* spp.** 1590
Ligustrum glomeratum 2794
L. lucidum 6117
L. obtusifolium 16
L.* × *vicaryii 16, 1171
L. vulgare 6998
Lingnania chungii 1447
***Linociera* spp.** 1570
Liquidambar styraciflua
bark, anatomy 1154
diseases and disorders
canker, bark diseases 2913
decay 5940
economics 180
fertilizers 555, 752, 5521
general information 3264
genetics/breeding 5940
increment and yield 189
injury by, gases and fumes 6887
insect pests, Lep. 4954
management 181
mycorrhiza 752, 1620
nursery management 187, 194, 1620
plantations on
mining wastelands 7320
wet lands 4525
pollards 2620
regeneration, artificial 180, 195
regeneration, natural 180
research 195

Liquidambar styraciflua *contd.*
seed, storage 193
site quality 4688
site requirements 4688
tree surgery 5940
variation 1620
wood, anatomy 1556
Liriodendron tulipifera
arboriculture 924
bark, anatomy 1154
dendrochronology 1843
diseases and disorders
decay 2283, 7111
root 2283
wilts, dieback 4901
fertilizers 7, 114, 924, 3211
general information 3265
genetics/breeding 7111
injury by
drought 4901
flooding 4901
frost 1347
gases and fumes 3380, 6876, 6887
management 181, 3270
measurement tables 3270
measurement, tree and stand 4567
mixtures 3865
mycorrhiza 3211
nursery management 33, 194
nutrition 2109
plantations in
Canada, Ontario 1347
Czechoslovakia 6372
plantations on, mining wastelands 7320
pollards 2620
regeneration, artificial 119, 1028, 1029
roots
growth 33
physiology 33
seed, storage 193
silviculture 1429, 3270
site quality 4688
site requirements 4688
thinning 4548
translocation 2109
variation 7111
Liriope muscari 1170
Lithocarpus **spp.** 3433
L. densiflorus 3885, 3886, 4577
Lithocolletis (see *Phyllonorycter*)
Litsea calicaris 1172
Lochmaea caprea 418, 419
Lonicera japonica 7036
L. tartarica 291
Lophira lanceolata 2236
Lophodermella sulcigena 3546, 4180
Lophodermium **spp.** 4183
L. canberrianum 4923
L. conigenum 4186, 4188
L. macrosporum 7181
L. pinastri 1033, 1662, 2308, 2919, 4184, 4187, 4188, 4191, 4862, 5363, 5923, 7181
L. seditiosum 2919, 4184, 4185, 4186, 4188, 4189, 4865, 6188
Lophophacidium hypoboreum 2305, 2306
Lophortyx gambelii 883
Lophyroplectus oblongopunctatus 6035
Loranthaceae 1575
Loranthus **spp.** 5183
L. europaeus 7198
Loxococcus **spp.** 4127
L. rupicola 4127
Loxopterygium **spp.** 2175
Lozotaenia coniferana 1215
Luehea seemannii 7032
Lumnitzera littorea 2145
Lupinus arboreus 904, 1220, 1510, 2726
Lycium andersonii 3357
L. europaeum 5873
L. pallidum 3357
Lygaeonematus abietina (see *Pristiphora abietina*)
Lymantria dispar
attractants 804, 809, 1216, 2321
disparlure 4209
bibliography 1689
biology and ecology 406, 800, 2944, 2947, 3600, 3601, 3605, 6190
book 5996
control 438, 800, 812, 862, 1216, 1738, 2358, 2364, 2365, 2954, 2990, 3596, 3597, 4214, 4945, 4946, 4966, 5420, 5432, 5996, 6036
Lymantria dispar *contd.*
damage by 812, 1685, 2954, 3332, 4967
dispersal 2325, 3561
distribution maps 1702
effect on increment and yield 4967
host relations 2325, 2944
parasites and predators 405, 856, 2358, 4210, 4215, 6002, 6036
pathology 4225
physiological effects 7212
physiology 406
population studies and surveys 804, 2327, 4964, 4977
secondary pests 806
study methods 3332
systems analysis and simulation 3561
trapping 804
L. monacha 408, 1211, 1691, 1751, 2321, 3558, 4213, 4943, 5000, 6010, 6031, 6037, 7214
L. obfuscata 1218
L. xylina 2936
Lyonia **spp.** 717, 3421
Macaca fascicularis 1854
M. mulatta 4285
Macadamia integrifolia 3547
Macaranga hypoleuca 6994
Machaerium **spp.** 2175
Machilus thunbergii 7042
Macrocentrus irridescens 2953
Macrophoma **spp.** 175
M. candollei 764
Macrophomina phaseolina 2879, 2881, 4898, 5163
Macropipes excelsum 1155
Maerua **spp.** 1285
Magnolia virginiana 1154, 5696
Magnoliaceae 3433, 5290
Malacosoma americanum 1686, 2954
M. californicum 802, 861
M. californicum pluviale 2324
M. constrictum 861
M. disstria 773, 802, 1209, 1242, 1695, 1740, 2294, 2954, 3278, 4954
M. neustria 806
M. tigris 773
Mallotus paniculatus 6994
Malus **spp.** 590, 930, 3702, 7385
Malvales 7018
Mangifera indica 1857, 6946
Manicaria saccifera 209
Manilkara **spp.** 5281
M. longifolia 90
M. rufala 90
Manilkariopsis **spp.** 5281
Marssonina brunnea 315, 361, 4416, 7188, 7194
M. salicicola 4923
Martes americana 1258
M. martes 2378
Mastrus aciculatus 2974
Matayba granulosa 90
Matsucoccus feytaudi 5390, 5990
Mauritia **spp.** 209
Maytenus acuminata 1552
M. peduncularis 128
Mecistoscelis scirtetoides 5393
Megalopyge opercularis 4957
Megalurothrips **spp.** 4098
Megarhyssa nortoni 1232
Megastigmus **spp.** 2973
M. specularis 7237
M. spermotrophus 854, 7237
M. suspectus 2977
Melaleuca **spp.** 959
M. leucadendron 1595, 6981
M. quinquenervia 981
Melampsora **spp.** 361
M. abieti 7184
M. aecidioides 4928
M. allii-populina 2907
M. chelidonii-pierotii 4925
M. coleosporioides 394, 4923, 6187
M. epiphylla 4925
M. larici-populina 360, 1198, 1663, 2907, 2914, 2921, 3519, 3539, 3541, 4918, 5373, 5966, 5974, 5983
M. medusae 315, 361, 3540, 4920, 5983, 7144, 7189
M. pinitorqua (see *Melampsora populnea*)
M. populnea 361, 785, 1654, 3520
Melampsorella caryophyllacearum 707
Melanconis modonia 7153
Melanolophia imitata 6205
Melanophila picta 5433
Melanoxylon brauna 90
Melastomataceae 4106
Meleagris gallopavo 446
Melia **spp.** 1553
M. azedarach 2510, 3712, 4234, 5595, 6042
Meliaceae 2796, 4128, 5290, 5880
Melocanna bambusoides 2481
Meloidodera floridensis 3257
Meloidogyne **spp.** 6030
Memora **spp.** 1553
Menispermaceae 5291
Menodora scabra 5599
Meria laricis 7187
Mesua ferrea 4098, 4127
Metarrhizium anisopliae 1739
M. flavoviride 1739
Metasequoia glyptostroboides 6610
Metrosideros collina 3440, 3674
M. collina polymorpha 2933, 4985
M. robusta 1235
Metroxylon sagu 211
Michelia nilgirica 6673
Micromonospora **spp.** 254
Microsphaera alphitoides 1657, 4192, 4923, 4927, 5369, 5972, 5976
M. platani 786, 787
Microtermes mycophagus 7208
M. obesi 7208
Microtus agrestis 1883, 4282, 7262, 7263, 7264
Mimusops elengi 5204
Mindarus abietinus 2318, 4206
Moghania macrophylla 588, 2638
Monochamus alternatus 874, 2965, 2966, 3566, 3630, 4232, 4983, 5005, 6185, 7222
M. titillator 858
Monosteira unicostata 3587
Monotes kerstingii 2236, 4061
Mora excelsa 1898
Moraceae 4128
Moringa **spp.** 1553
M. concanensis 4769
Moringaceae 4769
Morus **spp.** 208
M. alba 1111, 4423, 5306, 5611, 5830, 5833, 5834, 6042, 6423, 6667, 6990
Muriaeanthe **spp.** 5281
Mycellium radicis atrovirens 6502
Mycosphaerella **spp.** 784
M. maculiformis 7153
M. populorum 7144
Myelophilus piniperda (see *Tomicus piniperda*)
Myoporum sandwichensis 1974
Myrica gale 760
M. pensylvanica 5467
M. rubra 5375
Myristica **spp.** 7013
Myristicaceae 4128
Myroxylon **spp.** 2175
Myrtiluma eugeniaefolia 5287
Myxosporium abietinum 1618
Nadasia cuneatum 1694
Naemacyclus minor 2309, 4188, 4190, 4191
N. niveus 1662, 4189
Nastus **spp.** 3433
Nasutitermes exitiosus 390
Nauclea latifolia 3420
Necremnus metalarus 4265
Nectandra **spp.** 1590
Nectria **spp.** 4260
N. cinnabarina 392, 4872
N. coccinea 1649, 1650
N. coccinea faginata 1652
N. cucurbitula 780
N. ditissima 2898
N. fuckeliana 769
N. galligena 391, 1652
N. radicicola 175, 569, 707, 1618, 4827, 6502, 7163
Nemosturmia amoena 7256
Neoaplectana carpocapsae 835, 2958, 2988, 3624
Neobalanocarpus heimii 3816
Neobulgaria premnophila 769
Neocallitropsis araucarioides 711
Neodiprion **spp.** 7220
N. lecontei 1238, 1726, 1737, 6025
N. pinetum 434
N. sertifer
biology and ecology 3634, 4260

Neodiprion sertifer contd.
control 2974, 2980, 6033, 6035, 7240
damage by 7201
host relations 7238
parasites and predators 2974, 6035
N. swainei 4945, 7245
Neomyzaphis abietina (see *Elatobium abietinum*)
Neophasia menapia 1696
Neotermes samoanus 401
Nephelium spp. 1852, 7013
Neraudia pyramidalis 2787
Nerium spp. 4933
N. oleander 4793
Nesogordonia papavifera 7071
Nocardia spp. 3494
Nosema spp. 4966
N. disstriae 1740
N. fumiferanae 1740, 3603
N. lymantriae 405
N. serbica 405
Nothofagus spp. 73, 76, 1070, 1883, 3264, 3433, 5682
N. betuloides 3438
N. fusca 607, 2583, 2584, 3677
N. gunii 1312
N. menziesii 1177, 2583, 2584
N. obliqua 542
N. procera 542, 6503, 6895
N. pumilio 3438
N. solandri 5944
N. truncata 607, 3677, 6842
Nucifraga columbiana 5310
Nypa fruticans 1595, 1860
Nyssa spp. 2769
N. aquatica 4124, 4525, 4954, 5251, 5522
N. sylvatica 181, 188, 1154, 2109, 5249, 5522, 5696
N. sylvatica biflora 4525, 4954
Ochna pulchra 2756
Ochroma lagopus 110, 7032
Ocneria monacha (see *Lymantria monacha*)
Ocnerostoma strobivorum 2114
Ocotea bullata 128
O. porosa 2597
O. usambarensis 6287
Odocoileus hemionus 933, 2376, 2556, 3004, 4278, 5016
O. hemionus columbianus 2772, 3017, 4078
O. virginianus 184, 446, 885, 887, 1263, 1767, 2376, 3003, 3019, 5029, 7279, 7281
Odontia bicolor 3501, 5960
Odontotermes spp. 5389
O. brunneus 7208
O. formosanus 7207
O. gurdaspurensis 1679, 7208
O. kushwahai 7208
O. latiguloides 7208
O. obesus 1679, 7208
Odontria spp. 1229
Oechalia schellembergii 420
Oidium spp. 4923
Olea spp. 4933
O. brachiata 2794
O. capensis macrocarpa 128
O. cuspidata 6042
O. europaea 4, 6117
Oleaceae 5290, 6998
Oncerostoma piniariellum 801
Oncideros cingulata 4980
Oncorhynchus gorbuscha 3666
O. kisutch 6069
Ooencyrtus pityocampae 3598
Operophtera bruceata 791
O. brumata 1687, 1741, 1747, 2986, 3639, 7243, 7244, 7257
Ophicephalus punctatus 1859
Ophiognomonia pseudoplatani 3537
Oporinia autumnata 6006, 6007, 6978
Opuntia spp. 2607
Orgyia antiqua 3615
O. basalis 1694
O. leucostigma 4262
O. pseudotsugata 820, 1683, 1699, 1703, 1708, 1729, 2322, 4945, 4948
attractants 3573
biology and ecology 2939, 2942, 3608
control 3614, 4262, 4271, 4272
damage by 3613, 4156, 4223, 6011
dispersal 3573
effect on increment and yield 4221, 4223, 6011
effect on succession 4223
Orgyia pseudotsugata contd.
hormone treatments 4271
identification 3608
parasites and predators 3612
pathology 2942
population studies and surveys 2939, 3607, 3609, 3610, 3611
study methods 3607, 3609, 3611, 3612, 3613
systems analysis and simulation 3614, 4223, 4228
trapping 3610
Ormosia spp. 1924
Orthotomicus caelatus 4248
Ostrya virginiana 6736
Otiorhynchus ovatus 427
O. sulcatus 1739, 2957, 4246
Ougeinia oojeinensis 1077, 4198, 5831
Ovis musimon 3655
Oxycoccus spp. 3912
Oxydendrum arboreum 15, 2109
Oxydia trychiata 3578, 3580
Oxytenanthera nigrociliata 2481
Palaeocallidium coriaceum 400
Palaquium spp. 1494, 5220
P. ellipticum 6673
Paleacrita vernata 1685, 2954
Palmaceae 6420
Palmae 9, 2184, 3433, 6156, 6943, 7029
Pamphiliidae 5423
Panagrellus spp. 4983
Pandanus spp. 1494
P. odoratissimus 1275
Pandemis cerasana 1747
P. heparana 1747
Panellus mitis 5348
Panolis flammea 1211, 1751, 3558, 5432, 6004, 7256
Papio anubis 3420
Paracalacarus podocarpi 2359
Paralabatia spp. 3402
Paramachaerium spp. 2175
P. krukovii 1579
P. schunkei 1579
Parandra glabra 4233
Paranthrene simulans 5992
P. tabaniformis 1244, 5992
Parashorea densiflora 3816, 6994
Parasitaphelenchus spp. 2342
P. sexdentati 2342
Parkia biglandulosa 2956
P. gigantocarpa 1916
P. javanica 2171
Parkinsonia aculeata 6542
Paropsis charybdis 420, 421, 1243
Parrotia persica 125, 4871
Parthenium argentatum 525
Parus spp. 2989
P. major 2371
Pasania (see *Lithocarpus*)
Paullinia spp. 1553
Paulownia spp. 1897, 3264, 5379, 6188, 6298, 6610, 7291
P. taiwaniana 5380, 6084
P. tomentosa 398, 1203, 6186
Pausinystalia macroceras 3415
Paxillus involutus 755
Pelea capreolus 6058
Peltigera praetextata 256
Peltophorum spp. 1924
Penaeus merguiensis 1860
Penicillium spp. 2271
P. rubrum 254
Peniophora gigantea (see *Phlebia gigantea*)
P. sacrata 386
Pentaclethra macroloba 6752
Pericopsis elata 7071
Peridermium yamabense 4908, 6185
Periphyllus testudinaceus 7244
Peromyscus spp. 4286
P. maniculatus 540, 2377, 6393
Peronea gloverana (see *Acleris gloverana*)
Perthida glyphopa 416, 2951
Pestalosphaeria hansenii 2918
Pestalotia spp. 2303
P. apiculata 4931
P. heterocornis 1659
P. parrotiae 4871
Pestalotiopsis dichaeta 761
P. funerea 175, 395, 1658, 4924, 5372
P. mangifera 761
P. versicolor 3547
Pezicula cinnamomea 2877
Phacidium abietis 2304, 2306
Phaenops guttulata 400
Phaeogenes hariolus 2982
Phaeolus schweinitzii 380, 2891, 5346
Phaeoseptoria eucalypti 3545
Phalera bucephala 407
Phellinus noxius 765
P. pini 6208
P. punctatus 5488
P. tremulae 4089
Phellodendron amurense 4817
Phialophora melinii 2281
Phigalia plumogeraria 5396
Philobela minor 1257
Phlebia gigantea 4163, 7165
Phloeosinus aubei 173
P. neotropicus 4239
P. thuyae 173
P. turkestanicus 2314
Phloeotribus liminaris 2961
Phobocampe pulchella 3615
Phoma spp. 3481
P. acuum 4181
P. exigua 5374
P. medicaginis 5371
Phomopsis spp. 3543, 5952
P. cinerescens 3526
P. juniperivora 1191, 5372
P. oblonga 2892
P. tectonae 4921
Phoracantha recurva 431
P. semipunctata 431, 7219
Phoradendron spp. 1574, 1669
P. flavescens 790
Phryganidia californica 411
Phycomycetes 8
Phylacteophaga froggatti 2972
Phyllactinia spp. 788
Phyllaphis fagi 5402
Phyllocladus spp. 3433
P. aspleniifolius 1312
P. trichomanoides 2583, 2584
Phyllodecta vitellinae 2338
Phyllonorycter basistrigella 773
P. messaniella 5395
Phyllostachys bambusoides 2765
P. pubescens 5302
Phyllosticta spp. 3542
Phyllostylon spp. 2175
Phytodietus fumiferanae 4975
Phytophthora spp. 1800, 5341, 5344, 6190
P. cactorum 4872
P. cambivora 3263, 7153
P. cinnamomi 452, 3263, 5163
biology and physiology 2884, 2885
control 768, 789, 2274, 2284
damage by 383, 1636, 3742
ecological aspects 383, 387, 390, 1640, 1818, 2889, 2890
interaction with fungi or bacteria 3502, 3503
physiological effects 2284
research 1636
resistance to 5340
in *Acacia* 2284
soil-borne infection 1640, 7159, 7160
P. citricola 2286
P. cryptogea 7159, 7160
P. drechsleri 789
P. lateralis 2280
P. nicotianae 1637
P. nicotianae parasitica 764
Picea spp.
biomass production 2048, 2807, 3317
chemotaxonomy 7096
conferences, symposia 2807
conversion of stands 4366
diseases and disorders
decay 2285, 2891, 4879, 4885, 4886, 5960
root 2285, 4164, 4879, 4885, 4886
seedling 1628
fire, danger 5267
forest types 2807, 2811
general information 6615
genetics/breeding 741
hydrology 5458, 6077
increment and yield 5747
injury by
gases and fumes 2124, 6371
nematodes 2978
insect pests
Col. 843, 6018, 7224

***Picea* spp.** *contd.*
insect pests *contd.*
Hym. 4987, 5423
Lep. 815, 1217, 1219, 1705, 1743, 3650, 4971
management 2807
mixtures 5747
mycorrhiza 4849
nursery management 3848
propagation by grafting 3833, 4450
regeneration, natural 5631
roots, growth 3848
soil, effect on 2113
stand structure 2811
tissue culture 339, 2891
weed control 6566, 6568
P. abies
allelopathy 4117
bark, quantitative measures 3285
biomass production 2051, 2725, 2816, 2829, 2841, 2849, 2851, 3956, 6709
branches 4839
chemical constituents 2778, 5835, 6988, 7085
Christmas trees 5675
cleaning 3254
cone
measurement 4424
production 743, 6399
cover crops 1365
crown
damage 2729
dimensions 6814
dendrochronology 2728, 3110, 4357, 6123, 6124
dendroclimatology 2460, 6130, 7389
diseases and disorders 2834, 4538, 5942, 7086
complex or unidentified 7008
decay 150, 770, 1630, 1631, 2074, 2275, 3506, 3631, 4287, 5954, 6745, 7164
foliage and shoot 2305, 2306
root 769, 1641, 2877, 3506, 3631
seedling 562
wilts, dieback 1645, 4891, 7008
distribution 5882, 5884
ecology 1250, 2823, 2827, 5422, 5909
economics 2003, 2040, 2041, 2692, 2850, 2851, 3241
farm woodlands 7349
fertilizers 7, 107, 108, 374, 1007, 1365, 1375, 1941, 1971, 2266, 2392, 2557, 2843, 3218, 3838, 3849, 3852, 4551, 5159, 5616, 6436, 6444, 6447, 6699, 6839
flowering 283, 3815, 5309, 6180, 6462
foliage
chemistry 849, 3317
measurement 2830, 3317
physical properties 4083
uses and products 3913
weight 3913
forest types 710, 1422, 2812, 2814, 2820, 2832, 2855, 3321, 3329, 5909, 6614, 6674
fungi associated with 1185, 3914
general information 6615
genetics/breeding 326, 337, 338, 342, 349, 733, 736, 743, 744, 1923, 2819, 2865, 3809, 4346, 4835, 4839, 5280, 5926, 6371, 7079, 7085, 7087, 7090, 7091, 7103
ground cover 2089, 2849, 4025
growth abnormalities 2728
growth regulators, effect of 283, 4088, 5297, 6462
growth regulators in 5309
hydrology 1270, 2392, 2844, 2845, 2846, 3041, 4705, 6544, 6821, 7297
increment and yield 107, 108, 235, 238, 253, 331, 596, 1086, 1421, 1984, 2015, 2020, 2040, 2041, 2147, 2460, 2557, 2658, 2697, 2728, 2729, 2817, 3218, 3241, 3295, 3307, 3363, 3850, 3937, 3939, 3955, 4287, 4535, 4551, 4573, 4597, 4615, 4796, 5159, 5216, 5616, 5701, 6261, 6436, 6521, 6595, 6616, 6618, 6699, 6746
injuries, general 2848, 5764, 7006
injury by
artificial wounding 769
cattle 769

Picea abies *contd.*
injury by *contd.*
chemicals 5647
deer 2835, 4287, 5441, 5763, 7272
drought 2705, 3350, 3363
dust 6873
frost 346, 6813, 6871
game 4289
gases and fumes 1132, 2728, 2729, 2739, 2834, 2836, 3378, 5787, 5788, 5789, 5856, 6371, 6871, 6873
ice 4001
logging 5671, 5978
mammals 882, 6192
recreational activities 3696, 4346, 5076
salt 665, 1375
snow 1487, 2084, 2703, 2815, 2833, 3256, 4001, 4683, 5763, 6595, 6812, 6814
sunscorch 2692
toxic soils 1010
wind 2815, 2833, 6595
insect pests 2834, 2932, 4204
Col. 425, 426, 427, 770, 1715, 2967, 3631, 3652, 4947, 4982, 6017, 7195
Hem. 799, 1681, 5422, 7210
Hym. 399, 849, 855, 1727, 2931, 5413
Lep. 4212, 5394, 7214, 7218
interplanting in, broadleaved species 2040, 3268
interplanting with, broadleaved species 3242
irrigation 3880
light relations 3850, 4093
litter/humus 2092, 5885
logging 1411, 2725
logs, assortments 2653
management 1105, 1106, 1487, 2003, 2675, 2810, 2850, 4573, 6470
measurement tables 596, 2015, 2020, 2648, 2697, 3295, 4597, 5221, 5694, 5701, 6746
measurement, tree and stand 1449, 3312, 3321, 4576, 5693, 5742, 6706
mixtures 1425, 2040, 2041, 4117, 4553, 5159, 6617
mycorrhiza 35, 750, 2266, 4857, 7142
nursery management 558, 1382, 2266, 3849, 3850, 3851, 3852, 4093, 4464, 4465, 6447, 6648
nurses for 6628
nutrition 644, 1515, 2725, 2778, 2838, 2840, 2841, 6436, 6839, 6843
palaeoecology 4357, 5882, 5883, 5884
phenology 987, 2147, 5280
photosynthesis 574, 1132, 4789, 5308
physiology 1007, 2847, 4092, 5297, 5835
plantations in
Canada, Quebec 6798
Finland 6613
France 1996
Poland 2932
USSR, European region 4584
USSR, Russian region, northern 3956
plantations on
burned sites 4584
clay sites 6618
subalpine sites 3052, 3054
planting methods 2825, 3873, 4503, 6511, 6512
planting season 6523
planting stock 118, 325, 561, 562, 733, 2825, 3851, 3852, 3873, 4464, 4465, 5169, 6523, 6648
pollination 743
pollution control by 1300
propagation by cuttings 337, 338, 340, 2548, 3207, 3468, 4436, 5151, 5610, 6417
propagation by grafting 3465
protection and preservation 1298, 2827, 3321
protection forest 2393, 3027
provenance studies 327, 330, 342, 532, 558, 562, 984, 987, 1351, 1515, 1923, 2250, 2530, 2865, 3465, 3809, 4093, 6232, 6813
regeneration, artificial 2824, 5632, 6514
regeneration, natural 710, 1971, 2823, 2824, 3937, 4025, 4497, 4501, 5175, 5632, 6495
remote sensing 3329
roots 2825

Picea abies *contd.*
roots *contd.*
quantitative measures 2831
systems, distribution 5076, 6544
sap 3642
seed
chemistry 6988
germination 710, 1351, 3813, 6988
production 3815, 6406
seed orchards 325, 326, 331, 332, 334, 5280
testing 3813
treatment 4418, 6396
variation 1351
weight 987
seedling culture 558
silvicultural characters 1996
silvicultural systems 565, 882, 1967, 3255, 3256, 5660, 6017
silviculture 3027, 3900, 6614, 6617, 7282
site preparation 5642
site quality 644, 1421, 5715
soil 644, 2089, 2842, 6823, 6854
effect on 1118, 2837, 2839, 4025, 4117
flora 6843
soil cultivation 5641
soil requirements 253, 2820, 6821
spacing 134, 2815, 3241, 3243, 3955, 4551, 6521, 6594
stand density 4573
stand development 3243, 5630
stand quality 134, 5216, 5221, 6674
stand structure 2089, 2810, 2812, 2821, 2824, 2829, 2830, 2847, 2855, 3321, 3937, 4289, 4541, 4588, 4615, 6232
stem, form 3285, 3927, 5694, 6689
stump, flora and fauna 4254, 5345
tending, general 6470, 6581
thermal relations 346, 561, 562, 1515, 3345, 4083
thinning 150, 1411, 1996, 2001, 2815, 3255, 3256, 3891, 3929, 4538, 4541, 4546, 4597, 5185, 5671, 6574, 6579, 6589, 6591, 6593, 6595, 6616, 6644, 6646, 6812, 7164
tissue culture 5297
transpiration 4016, 4705
tree statics/dynamics 1488, 6814
variation 334, 2819, 2865, 5926, 7090, 7091, 7103
virgin forest 3937, 4289
water relations 3363, 4016, 6544
weed control 1984, 4535, 5647, 6559
weedkillers, effect of 574, 6559
wildlife 5422, 7273, 7282
wood
anatomy, growth rings 7079
decay 7155
P. brachytyla 7022
P. engelmannii
cone, pests and diseases 4973
crown, dimensions 4578
diseases and disorders
root 1626, 2883
seedling 1626, 1627
fire
danger 4748
reaction to 7370
foliage, weight 4578
forest types 2826, 5901
genetics/breeding 1182
grazing and pasture 1762
hydrology 4692
increment and yield 239, 603, 1078, 3296
injury by, wind 6016
insect pests 2932
Col. 844, 2883, 6016
Hem. 4207
Lep. 4973
litter/humus 4692
management 3296
measurement tables 2023
measurement, tree and stand 1452
mycorrhiza 750
nursery management 1626, 5166
plantations in, Poland 2932
planting stock 5166
provenance studies 3199
regeneration, natural 1386, 1762, 2818, 3234
reproductive behaviour 6408
seed
dispersal 1386

Picea engelmannii *contd.*
seed *contd.*
production 1386
stand structure 2818
thermal relations 4682
wildlife 1261
P. engelmannii* × *P. glauca 3625, 1627
P. excelsa (see *Picea abies*)
P. farreri 7022
P. fennica 532
P. glauca
allelopathy 2242
biomass production 3954, 4590, 6737
burning, controlled 6918
cone
collection 3820
pests and diseases 7246
dendroclimatology 1842
diseases and disorders
decay 3501
foliage and shoot 2305, 2306, 2915
root 3501
seedling 1627
wilts, dieback 2893
witches' brooms 2915
electrical phenomena 693
fertilizers 1041, 3843, 5153
fire 2139
danger 2133, 6918
forest types 1963, 5494
genetics/breeding 302, 311, 312, 4837
hybrids 4837
increment and yield 216, 984, 1041, 1078, 1396, 1416, 2525, 2617, 2664, 3843, 3875, 4592, 5153, 5500, 6693, 6738
injury by
frost 1692
gases and fumes 6876
mistletoe 1671
rodents 4286
insect pests
Col. 826, 2355, 7236
Dipt. 7246
Lep. 413, 814, 1240, 1692, 1707, 1731, 1754, 1756, 2337, 2356, 2952, 3640, 3646, 4224, 4965, 4999, 5418, 6768, 7390
insecticides, effect of 4270
measurement tables 610, 1455, 5719, 6693
measurement, tree and stand 2664, 6677
microclimate 1485
mixtures 5494
nursery management 320, 1376, 4468, 4476, 4481, 5166, 6382
plantations in
Canada, New Brunswick 1423
Canada, Ontario 216
Canada, Quebec 6798
Canada, Saskatchewan 3991
Germany, West 6891
plantations on, peatland 2602
planting methods 4520, 6507
planting season 570, 6523
planting stock 136, 570, 693, 1016, 1017, 1393, 1396, 1399, 3867, 4476, 4509, 5166, 5169, 6507, 6517, 6523
propagation by cuttings 6425
provenance studies 136, 2525, 6379, 6381, 6382
regeneration, artificial 1963
regeneration, natural 1388, 1963, 2242, 2818, 5173, 6407
remote sensing 6768
reproductive behaviour 6408
roots 6517
growth 136
seed 6381
pests and diseases 6393
production 6412
seed orchards 312, 6412
seed trees and stands 6407
storage 3201
treatment 3201, 3821, 6391, 6393
silvicultural systems 1416, 3896
silviculture 321, 3897
site preparation 6507
site requirements 321, 3244
spacing 3875
stand development 1450, 3897
stand structure 2139, 2818
thinning 1416, 2617

Picea glauca *contd.*
tissue culture 318
underplanting in, broadleaved species 5639
variation 6677
weed control 1041
P. glauca* × *P. pungens 4837
P. glehni 7226
P. heterophylla 5277
P. jezoensis 2588, 5687, 6373, 6830, 7226
P. koyamai 750
P. mariana
biomass production 3954, 4590, 6737
burning, controlled 4755, 6918
diseases and disorders
decay 3501
flowers and fruits 4932
foliage and shoot 2305, 2306
root 3501
seedling 4157
economics 6794, 6795
electrical phenomena 693
fertilizers 109, 1004, 1417, 3843, 4448, 6857
fire 2139
danger 2133, 6918
reaction to 4047, 4763
forest types 5494
genetics/breeding 302, 1913, 4833, 7104
hybrids 4833
increment and yield 109, 219, 984, 1004, 1081, 1082, 1396, 1416, 2044, 3843, 4448, 5500, 6693
insect pests 2932
Col. 7236
Lep. 1240, 1707, 1755, 2336, 4999, 7390
litter/humus 3373, 6857
measurement tables 6693
mixtures 5494
nursery management 320, 1015, 1381, 4157, 4472, 4476, 4529, 5164, 5170, 6467
nutrition 3373, 6857
plantations in
Canada, New Brunswick 1423
Canada, Ontario 219
Poland 2932
plantations on
mining wastelands 2396
peatland 2602, 6506
planting methods 4520, 6507
planting stock 136, 693, 1396, 4471, 4476, 4509, 4510, 5169, 6467, 6507
pollen 6411
propagation by cuttings 6425
provenance studies 136, 6380, 6381, 6383, 7104
regeneration, artificial 3859
regeneration, natural 1968, 2818, 3859, 4496, 5627
remote sensing 4668, 6766
roots, growth 136
seed 1015, 6381
dispersal 6402
pests and diseases 6392, 6393
production 6402, 6411, 6412
seed orchards 6412
treatment 4512, 6391, 6392, 6393
variation 6402
silvicultural systems 1416, 3993, 5627
silviculture 321, 6794
site preparation 1034, 1980, 3876, 4496, 4511, 6507
site quality 6720
site requirements 321, 3244
sowing, direct 4511, 4512
stand structure 2139, 2818
stem, form 5704
thinning 109, 1416, 1417
weed control 3250
P. mariana* × *P. omorika 4833
P. obovata
biomass production 2829
chemical constituents 4786
cone
collection 5600
production 6399
foliage, chemistry 2773
forest types 4818
increment and yield 4611
nursery management 4484
oils 4786

Picea obovata *contd.*
plantations on
marginal, waste, degraded land 4310
mining wastelands 4310
pollen 4102
provenance studies 532
regeneration, artificial 3863
regeneration, natural 3863
seed, grading, quality 5600
stand development 4492
stand structure 2829
stem, form 3927
P. omorika 4833, 6871
P. orientalis 750, 3925
P. pungens 603, 750, 779, 1013, 1182, 1361, 2861, 3052, 3527, 4207, 4268, 4748, 4837, 6871
P. rubens 662, 984, 1416, 1423, 1731, 1755, 1913, 2305, 2306, 2818, 2932, 2946, 3191, 3591, 4446, 4448, 4706, 4837, 4999, 5075, 6445, 6605, 6677, 6794, 7156, 7236
P. sitchensis
biomass production 73, 3119, 6700
coppice 5134
diseases and disorders
decay 4889
root 4889
seedling 1627
fertilizers 656, 657, 1378
forest types 1089, 6051
fuel plantations 73, 5134
genetics/breeding 5925
grazing and pasture 3687
habit 1877
increment and yield 1378, 1959, 1984, 6700
injuries, general 851
injury by, frost 1959, 5766, 6871
insect pests
Col. 846, 3626, 7224
Hem. 402, 799, 4207
Hym. 851
light relations 699, 700, 701
litter/humus 645, 6829
logging waste 5277
management 1089, 3698, 3963
mycorrhiza 1622, 4845, 5337
nursery management 859, 1378, 1959, 4845
nutrition 656, 657, 3119
photosynthesis 699, 700, 701
physiology 1378
plantations on
marginal, waste, degraded land 3680
mining wastelands 3680
peatland 2602
planting stock 1962
provenance studies 1348, 3450
regeneration, natural 2818
roots
growth 1464, 1878
quantitative measures 1464
seed, pests and diseases 1930, 2541
silviculture 3963
site preparation 3248, 5277
soil
fauna 859
flora 645
spacing 6588
stand development 1877
stand structure 2818
thinning 656, 6588
variation 1881
water relations 1878
weed control 1983, 1984, 1987
P. smithiana 2822
P. spinulosa 7022
P. tibetica 750
Picoides borealis 5526
Pikonema alaskensis 4987, 4988
Piloderma bicolor 5943
P. croceum 4857
Pimplopterus dubius 5394
Pineus boerneri 5989
P. coloradensis 5989
P. floccus 3591
P. pini 403, 404, 1694, 3590
***Pinus* spp.** 1898
biomass production 3188, 3737
chemical constituents 7010
chemotaxonomy 7023
Christmas trees 848

***Pinus* spp.** *contd.*
diseases and disorders 3581, 5951
canker, bark diseases 5968
decay 4887, 5348
foliage and shoot 1654, 3546, 4183, 4917
root 1638, 4887
seedling 2880
stem rusts 1654, 2296, 2877, 3513, 3520, 7171
wilts, dieback 6185, 6188, 7250
distribution 3433
fertilizers 3737
fire, danger 267
forest types 1422, 3431
genetics/breeding 6182, 6183
historical records 3431
injury by
gases and fumes 2068, 6884
nematodes 2978, 2979, 6029, 7250
salt 5767
insect pests 3581, 6189, 6193
Col. 1229, 1717, 2966, 2968, 2969, 4232, 4253, 7224
Dipt. 4261
Hym. 848, 1232, 1726, 5423
Isopt. 3589
Lep. 868, 1219, 2937, 5398, 5419, 6038, 7216
leaf, anatomy 6181
litter/humus 4004
management 1032
mycorrhiza 749, 2874, 3488, 4849, 4852, 5946, 7141, 7321
nursery management 3848, 5946
nutrition 3737
ornamental value 848
plantations in
Brazil 6298
USA, Florida 5587
USA, Virginia 5564
plantations on
dry sites 5587
watersides 5041
planting stock 4397
pollen 4812, 7010
propagation by grafting 3833
provenance studies 5585
regeneration, artificial 4397
remote sensing 2684
resin 7002
resources 5084
roots
growth 3848
physiology 3740
shelterbelts 3581
shoot, growth and development 3411
silviculture 1032
site preparation 3879
sowing, direct 5637
tissue culture 339
weedkillers, effect of 3488
wildlife 7286
***P.* (*Strobus*)** 2905
P. albicaulis 1647, 2927, 4578, 5310, 6949, 7370
P. aristata 3554
P. armandii 2536, 2537, 7026
P. armandii amamiana 7071
P. attenuata 3430
P. attenuata* × *P. radiata 3894
P. banksiana
allelopathy 2242
biomass production 1080, 4408, 4590, 6737
burning, controlled 4041, 6918
chemical constituents 317, 6982
Christmas trees 3909
cone, production 2252, 5157
diseases and disorders
decay 6208
stem rusts 4169
wilts, dieback 2893
electrical phenomena 693
fertilizers 556, 999, 1000, 1001, 1002, 1003, 1372, 1374, 1949, 4445, 4844, 5157, 6723, 6899
fire, danger 5807, 6918
flowering 2172
foliage, chemistry 1000, 1601, 6723
genetics/breeding 302, 304, 317, 1601, 1611, 2252, 2253, 5930
growth regulators, effect of 2172

Pinus banksiana *contd.*
increment and yield 1001, 1002, 1003, 1372, 1949, 2253, 3194, 3875, 4445, 4844, 6693, 6723, 6899
injury by, recreational activities 4343
insect pests
Hym. 1737, 2974
Lep. 1214
insecticides, effect of 5007
litter/humus 4521, 5807
measurement tables 6693
mycorrhiza 4844, 7141
nursery management 320, 1015, 1374, 1381, 4169, 4468, 4476, 4529, 5164, 5166
nutrition 1560, 1949
plantations in
Canada, New Brunswick 1423
Canada, Ontario 4513
Canada, Quebec 6798
planting methods 4520
planting season 6523
planting stock 136, 693, 3867, 4476, 4479, 5166, 5169, 6515, 6523
pollen 6982
provenance studies 136, 3194, 6378, 6381
regeneration, natural 1023, 2242
remote sensing 4668, 6766
roots 6515
growth 136
seed 1015, 6381
germination 4421, 5007
pests and diseases 6392, 6393
production 2252, 5157
seed orchards 304
treatment 3821, 4421, 6391, 6392, 6393
silviculture 1080
site preparation 1034
site quality 6720
sowing, direct 3868, 3869, 5179, 5634
spacing 3875
stand development 5179
thinning 1003, 1413, 6899
underwood 1000
weed control 1002, 3250
wildlife 2375
wood
anatomy 6969
density 6899
P. banksiana* × *P. contorta 1034
P. bhutanica 7026
P. brutia 601, 649, 3227, 4176
P. canariensis 236, 601
P. caribaea 2536, 2537
biomass production 3944
chemical constituents 7092
diseases and disorders, foliage and shoot 2918
fertilizers 2574, 2576, 6450
fuel plantations 530
genetics/breeding 1917, 2864, 7092
increment and yield 2102, 6450, 6619
measurement, tree and stand 4633
nursery management 1011, 1957, 1958, 2102, 2566, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2578, 2768
plantations in
Brazil, Amazonia 3088
Fiji 2593, 6894
Jamaica 5271
Tanzania 2577
tropical regions 2864
plantations on, dry sites 2593
planting methods 2567
planting season 1975
planting stock 2575, 2578
propagation by grafting 3828
provenance studies 1917, 1920, 2577, 2580, 6375
resin-tapping 6656
roots, growth 2768
seed
collection 3451
germination 6394
production 2864
seed trees and stands 6404
site preparation 2576
soil cultivation 2567
soil requirements 6450
spacing 2102
stand density 6619

Pinus caribaea *contd.*
water relations 2102
weed control 1989, 2576
wood
density 6894
variation with growth factors 6894
P. caribaea bahamensis 1937, 2536, 2537, 6375
P. caribaea hondurensis
diseases and disorders
foliage and shoot 7182
root 771
fertilizers 1377, 3222
genetics/breeding 5927
growth abnormalities 276
habit 276, 5927
increment and yield 2714, 5217
insect pests, Hym. 4257
measurement tables 5697
measurement, tree and stand 5217
mycorrhiza 378
nursery management 378, 1377
plantations in
Australia 3168
Brazil 6297, 6299
Gabon 2598
tropical regions 3168
provenance studies 2536, 2537
seed
germination 7014
production 1926
seed orchards 1926
site quality 2714
soil requirements 1377, 2714, 3222
weedkillers, effect of 4533
wood, pulp and pulping 5140
P. cembra
dendrochronology 7391
dendroclimatology 6130, 7389
hydrology 3041
insect pests, Lep. 801
plantations on, erodible sites 1788
protection forest 3027
silvicultural systems 1967
silviculture 3027
P. clausa 981, 1753, 2529, 3818, 3830
P. clausa immuginata 594, 2529, 5215, 5587, 6520, 6527
P. contorta
bark, chemistry 4243
chemical constituents 4986, 6982, 7093
crown, dimensions 4578
diseases and disorders 1424, 4202
canker, bark diseases 2877, 4912
decay 4195, 4889
foliage and shoot 2916
root 4889, 5961
stem rusts 2906
ecology 5333
felling 5047
fertilizers 1041, 1378, 4457, 5612
fire
danger 1533, 5805
reaction to 7370
flowering 1882, 5868
foliage, weight 4578
forest types 6051
genetics/breeding 336, 345, 744, 3195, 5925, 7093
grazing and pasture 1762, 1763
growth regulators, effect of 5838
hydrology 2749, 4692, 5047
increment and yield 239, 1041, 1051, 1378, 3299, 5612, 5747, 6600, 6693
injuries, general 7006
injury by
frost 742, 6871
gases and fumes 2114, 2115, 6371
mistletoe 1667, 1668, 1670, 2312
mites 2353
insect pests 4202
Col. 842, 1224, 2331, 2355, 2996, 3571, 4195, 4243, 4245, 4249, 4250, 4251, 4986, 5410, 6772, 7233
Hem. 7209
Lep. 2114, 2115, 3565
light relations 345
litter/humus 1116, 4692
logging 450
logging waste 5745
management 2331, 3299, 3698
measurement tables 2027, 6693
measurement, tree and stand 1452

Pinus contorta *contd.*
mixtures 5747
mycorrhiza 3482, 5333, 7140
nursery management 1378, 1954, 3482, 4465, 4468, 5166
physiology 1378
plantations in
Sweden 1424
USSR 5588
plantations on
marginal, waste, degraded land 3680
mining wastelands 3680
peatland 2602
planting stock 325, 1051, 1426, 3867, 4465, 5166
pollen 6982
provenance studies 329, 3195, 5868, 7140
regeneration, artificial 1020
regeneration, natural 1020, 1762, 6538
remote sensing 6772
reproductive behaviour 6408
roots, growth 2600, 3848
seed
extraction 5598
production 3195
seed orchards 325, 336, 5838
silviculture 1426
site preparation 1034, 3248, 6538
site requirements 3244
sowing, direct 2600
spacing 6588
stand development 2806
thermal relations 345
thinning 6588, 6600
variation 1881
weed control 1041, 1954
weedkillers, effect of 142
wildlife 1261
P. contorta latifolia (see *Pinus contorta*)
P. contorta murrayana 5410, 5588
P. coulteri 601, 5932
P. densiflora
cone, growth and development 6400
ecology 5333, 5424, 6687
fertilizers 376, 6437
foliage, chemistry 6849
genetics/breeding 7109
ground cover 5424
injury by
frost 4000
gases and fumes 5262, 6187
nematodes 3566, 4996, 5005, 7222
insect pests
Col. 2965, 3627, 3630, 5005, 7222
Lep. 805, 5425
mixtures 7374
mycorrhiza 376, 5333, 6180, 7127
nutrition 6849
plantations on, erodible sites 3669
propagation by grafting 1935
seed, production 6400
stand structure 6687
thinning 7374
variation 6184, 7109
water relations 3029
wood
anatomy 4076, 6969
reaction wood 2744
chemistry 4076
extractives 3630
P. densiflora × ***P. thunbergii*** 6180
P. echinata
biomass production 1315, 7345
burning, controlled 1038
cone, handling, processing 3818
diseases and disorders, stem rusts 731, 5969
fertilizers 4444
fire, danger 1141
genetics/breeding 731, 7107
hybrids 737, 7107
increment and yield 3932, 4444, 5524, 5733
insect pests
Col. 432, 832, 840, 3568, 3569, 3620, 3622, 4252, 4267, 7225
Lep. 876, 1221, 4967
litter/humus 1141
logging waste 1141
management 5524
measurement, tree and stand 600
mycorrhiza 375, 7136

Pinus echinata *contd.*
nursery management 3847
nutrition 659, 1315, 2109
plantations in, USA, Tennessee 5526
plantations on
erodible sites 6539
former fields 659
planting stock 375
seed
production 7107
seed orchards 876
silvicultural systems 5523, 6482
silviculture 5524
site preparation 6539
spacing 3932
thinning 1038
translocation 2109
weed control 3847
weedkillers, effect of 1038
P. echinata × ***P. taeda*** 1197, 5969
P. edulis 1545, 2025, 2239, 3628, 3803, 4810, 5023, 6083
P. eldarica 19, 601, 4413, 6555, 6558 (cf. *Pinus brutia*)
P. elliottii
bark, quantitative measures 1063
biomass production 604, 981, 5017, 5522, 6866
burning, controlled 673, 674, 5017, 6866
chemical constituents 3830, 5522, 6866
cone
collection 4426
handling, processing 3818
pests and diseases 3643
defoliation, artificial 3000
diseases and disorders
decay 4874, 7165
root 4874, 4884, 7165
seedling 5952
stem rusts 1196, 2298, 3515, 3516, 3530, 4054, 4907, 4913, 5356, 5359, 5526
wilts, dieback 6191
fertilizers 1366, 3257, 5161
fire, control 673
flowering 1935
fuel plantations 530
fungicides, effect of 7139
genetics/breeding 351, 959, 2255, 4836
grazing and pasture 1761, 5017
growth regulators, effect of 5838
hydrology 7302
increment and yield 604, 1058, 1428, 4606, 4607, 5217
injury by
artificial wounding 2998, 2999
cattle 2998, 2999, 3000
chemicals 1442
girdling 2998
leader damage 2999
nematodes 3257
parasitic angiosperms 3553
insect pests 1753, 5434
Col. 1442, 6657
Hem. 3643
Lep. 876, 3320, 3643
management 151, 240
measurement, tree and stand 600, 4632, 5217, 5696, 6690
mycorrhiza 7139
nursery management 1011, 3847, 5619, 6464
nutrition 5786
plantations in
China 2255
USA, Florida 139
planting methods 139
planting stock 2563
pollination 4422
propagation by grafting 1935, 3830
provenance studies 535, 2536, 2537
regeneration, artificial 1391
regeneration, natural 140
resin-tapping 1058, 1442, 5205, 5434, 6657
rootstock for grafts 998
seed
pests and diseases 3643
seed orchards 876, 4422, 5838
silvicultural systems 5523
silviculture 151, 5516
site preparation 140, 4874, 5017, 5517, 5518

Pinus elliottii *contd.*
soil requirements 2094
sowing, direct 1391
thinning 4606, 5519
tissue culture 5359
variation 2255
weed control 3257, 3847, 5645
weedkillers, effect of 4533
wood
density 1063
moisture relations 1063
P. esterezii 5313
P. flexilis 6949
P. flexilis reflexa 2023
P. glabra 1920, 3818
P. greggii 1228, 1920, 3430
P. griffithii 4908
P. halepensis 4033
acoustic properties 6902
diseases and disorders
foliage and shoot 1662, 4177
wilts, dieback 2894
honeydew 590
honey/nectar 590
hydrology 2104
increment and yield 601, 6719
measurement, tree and stand 2667
plantations in, Mediterranean region 5549
protection and conservation 5070
seed
variation 5603
weight 5603
silviculture 581
site quality 6719
sowing, direct 581
transpiration 7000
water relations 6847, 7000
weed control 6555, 6558, 6561
weedkillers, effect of 6555, 6558, 6561
P. heldreichii 1631
P. heldreichii leucodermis (see *Pinus leucodermis*)
P. insularis (see *Pinus kesiya*)
P. jeffreyi 2122, 3951, 5366, 5584, 6001
P. kesiya
antibiotics 379
defoliation, artificial 4200
diseases and disorders, foliage and shoot 4930
fertilizers 6438
foliage, chemistry 379
genetics/breeding 2864
increment and yield 6438
insect pests, Hem. 5392
mycorrhiza 749, 4858, 5335
plantations in
Tanzania 2577
Thailand 2404
tropical regions 2864
plantations on, grassland 5644
provenance studies 1920, 2536, 2537, 2577, 2580, 6375
seed, production 2864
site preparation 5644
sowing, direct 5644
variation 6165
water relations 5304
weed control 1040, 4528
P. koraiensis 1610, 2297, 5827, 5994, 6185, 6422, 6572, 7071, 7176
P. lambertiana 142, 1363, 1609, 1954, 2877, 3528, 4171, 5695, 6949
P. leiophylla 1920, 2577, 2579
P. leucodermis 1631 (see also *Pinus heldreichii*)
P. longaeva 4358
P. luchuensis 2536, 2537, 2949, 3365, 3372, 3408, 7075
P. maritima (see *Pinus pinaster*)
P. massoniana 2251, 2536, 2537, 2983, 3831, 6612, 6620, 7180
P. massoniana × ***P. thunbergii*** 2251
P. merkusii
diseases and disorders
complex or unidentified 3510
foliage and shoot 5365, 7180
seedling 3499
wilts, dieback 3510
genetics/breeding 2864
mycorrhiza 5947
nursery management 3499

Pinus merkusii *contd.*
plantations in
Indonesia 5474, 5476
tropical regions 2864
provenance studies 2536, 2537, 2580, 6375
seed, production 2864
P. michoacana 2577, 2579
P. monophylla 1473, 1545, 2035, 2036, 2037, 2138, 2239, 2496, 2654, 3320, 3922, 3933, 4634, 4639
P. montana 6130
P. montezumae 2577, 2579, 5313
P. monticola
cone, production 4420
crown, dimensions 4578
diseases and disorders
foliage and shoot 1200
stem rusts 1195, 2300, 2877, 2905, 3518, 4906, 4908
fertilizers 112
foliage, weight 4578
growth regulators, effect of 4435
insect pests, Col. 6014
logging waste 5745
pollen 4420
propagation by cuttings 4435
propagation by grafting 105
propagation by needle fascicles 4435
propagation, vegetative 1362
provenance studies 1918
regeneration, artificial 1020
regeneration, natural 1020
wood, anatomy 6949
P. mugo 26, 1788, 2234, 4862, 5819, 6982, 7010
P. mugo mughus 3393
P. muricata 3348, 3430, 3463
P. nigra
biomass production 73
chemical constituents 4714
cone, measurement 4424
conversion of stands 4550
diseases and disorders
foliage and shoot 397, 1662, 4179, 4181
root 8
stem rusts 2899, 3521
wilts, dieback 5967
fertilizers 1378, 1944, 6442
foliage, chemistry 2039
fuel plantations 73
genetics/breeding 349, 2863, 4179
increment and yield 1378, 2039, 2612
injury by
frost 6871
gases and fumes 4714
nematodes 858
wind 2086
insect pests 2315
Col. 858
Hem. 7209
Lep. 2989, 3598
measurement tables 4610
mixtures 4550
mycorrhiza 35
nursery management 1378, 6556, 6560
physiology 1378
plantations in, Germany, West 2533
plantations on
erodible sites 5044, 6442
marginal, waste, degraded land 3680
mining wastelands 3680
polluted sites 4308
subalpine sites 2234,
provenance studies 6390
resources 5084
seed
germination 5342
pests and diseases 5342
site preparation 6557
thinning 2612
transpiration 4016
water relations 4016, 6847
weed control 1986, 6555, 6556, 6558, 6559, 6560, 6561
weedkillers, effect of 6555, 6558, 6559, 6560, 6561
P. oaxacana 2577
P. oocarpa
chemical constituents 7092
defoliation, artificial 4200
diseases and disorders, root 771

Pinus oocarpa *contd.*
fertilizers 110
genetics/breeding 2864, 7092
mycorrhiza 110
nursery management 110, 2566, 2568, 2569, 2570, 2572, 2573, 2575
plantations in
Gabon 2598
Jamaica 5271
Tanzania 2577
tropical regions 2864
planting stock 2575
provenance studies 2536, 2537, 2577, 2580, 6375
seed
collection 3451
production 2864
seed trees and stands 6404
wood, pulp and pulping 5140
P. palustris
biomass production 6866
burning, controlled 673, 6866
chemical constituents 6866
cone, handling, processing 3818
diseases and disorders, foliage and shoot 4054, 4178, 5971
fertilizers 1367, 1369, 2786
fire
control 673
reaction to 1542
flowering 2786
genetics/breeding 959
grazing and pasture 1761, 5438
growth regulators, effect of 583, 2786
hydrology 891
increment and yield 1073
injury by
chemicals 1442
pigs 5028
insect pests
Col. 1442, 3620
Lep. 876
litter/humus 6831
management 151
measurement, tree and stand 600, 5696
mycorrhiza 5971
nursery management 1960
plantations in, USA, Florida 5587
plantations on, dry sites 5587
planting stock 4518
regeneration, artificial 4518
resin-tapping 1442
seed, seed orchards 876, 1367
silvicultural systems 891
silviculture 151, 583, 5516
stem, form 5520
P. parviflora 2536, 2537
P. parviflora pentaphylla 4908
P. patula
bark, quantitative measures 1063
burning, controlled 674
cone, morphology 3430
fertilizers 6438
fossil 3430
historical records 3430
increment and yield 1049, 1457, 6438
insect pests 3579, 3580
Col. 1228
Hem. 403, 404, 1212
Lep. 1693
litter/humus 2711
mycorrhiza 4847
nursery management 1011
plantations in, Jamaica 5271
propagation by layering 2547
provenance studies 1920, 2536, 2537
radiation, effect of 739
seed
germination 739, 6394
treatment 5147
soil requirements 2094
spacing 1049
thinning 148
wood
density 1063
moisture relations 1063
pulp and pulping 1049
P. pentaphylla 7071
P. peuce 1631, 4908, 6871, 7067
P. pinaster 89
chemical constituents 7094
conversion of stands 4550
crown, dimensions 2644

Pinus pinaster *contd.*
diseases and disorders
foliage and shoot 1662, 4177, 5370
stem rusts 781, 3521, 3522
economics 5661
fertilizers 550, 1364
fire 5661
genetics/breeding 353, 3473, 7073, 7094
increment and yield 353, 582, 601
insect pests
Col. 4979
Hem. 5390, 5990
Lep. 873
litter/humus 5771
mixtures 4550
nursery management 6556
phenology 353
plantations in
Australia, Western Australia 7299
France 5661
propagation, vegetative 6413, 6414
provenance studies 88, 89
remote sensing 2070
resources 5084
silviculture 88, 2644, 5661
soil 5771
thinning 582
tissue culture 7073
variation 3473, 7094
weed control 5645, 6556
P. pinea 873, 2894, 3473, 3521, 3522, 3523, 4177, 6902
P. ponderosa
biomass production 605
browse 605
burning, controlled 270, 4749, 5002
cone, colour 5921
control, chemical 3885
crown, dimensions 4578
dendrochronology 3397
diseases and disorders
foliage and shoot 4179, 4923
root 772, 5961
economics 3992
fertilizers 1370, 4454, 5155
fire 3397
danger 4740, 4741, 4747, 4748, 5267, 5268, 5805
reaction to 677, 3396, 7370
foliage, weight 4578
forest types 918, 5901
genetics/breeding 2524, 2531, 4179, 4834, 5330, 7102, 7110
grazing and pasture 566, 605, 1761, 3654
growth regulators, effect of 4792
increment and yield 239, 603, 1467, 3297, 3298, 4579, 4613
injury by
gases and fumes 2122, 6885
lightning 4579
mistletoe 1206, 2339
rodents 3023
insect pests 792
Col. 829, 830, 838, 864, 1712, 2339, 2341, 3557, 3649, 4944, 4947, 4978, 5431, 5558, 6773
Lep. 1696, 1697, 4223, 4960, 5002
insecticides, effect of 4021
litter/humus 1116
logging waste 1508, 5745
management 3297, 3298, 3698
measurement tables 2023, 4613, 5686
mycorrhiza 1619, 3482; 7140
nursery management 1619, 1954, 3482
physiology 704
plantations in, USA, California 5584
propagation by grafting 105
provenance studies 2531, 5142, 5584, 7140
regeneration, artificial 1020, 2626
regeneration, natural 566, 1020, 2626, 2721
remote sensing 6773
reproductive behaviour 6408
seed
dispersal 5597
germination 1359, 2721
production 5597
seedlings 704
shelterbelts 5142
silvicultural systems 1508, 7265, 7266
silviculture 2626, 4552
site requirements 3244

Pinus ponderosa *contd.*
spacing, weed control 3871
thinning 3893, 3951, 7265, 7266
variation 5921
water relations 1559, 2721
weed control 1370, 1954, 5648
weedkillers, effect of 142
wildlife 605, 3657, 7265, 7266, 7267, 7268
wood
deadwood 3803
fuel 3803
P. ponderosa scopulorum 1559, 2531, 4495
P. pringlei 2577, 3430
P. pseudostrobus 1920, 2577, 5313
P. pumila 2064, 4908, 5333, 5827
P. radiata
arthropods associated with 2930
beating up 2004
biomass production 2046, 3317, 3727, 3740, 6710
browse 6058
cone
growth and development 539
handling, processing 539
morphology 3430
crown
development 2000
flora and fauna 2930
weight 2000
diseases and disorders 2624, 3496, 4851
decay 2276, 2277
foliage and shoot 1660, 2917, 2920, 3535, 4923, 5973
root 8, 2276, 2277, 2881, 5163
seedling 2917, 5163
stem rusts 4902
wilts, dieback 2289, 2894, 4898
fertilizers 551, 560, 606, 1121, 1973, 3212, 3214, 3729, 3730, 3741, 3837, 5154
fossil 3430
fuel plantations 530
genetics/breeding 539, 734, 735, 740, 4831, 6181, 7106
grazing and pasture 1803
historical records 3430
hydrology 5447
increment and yield 601, 606, 612, 1801, 1815, 2046, 2662, 3837
injury by
deer 6058
frost 2085, 3348, 3349, 6181
mammals 3021
mites 3638
molluscs 6042
wind 2086, 6808
insect pests 1210, 2625, 2930, 4201
Col. 834, 1227, 5404
Hym. 2971, 3635, 6027, 6033
Lep. 412, 417, 1217
irrigation 573
litter/humus 2091, 3740, 4011, 4012
logging 4013
mycorrhiza 377, 2875, 4851, 5949
nursery management 1390, 1954, 3225, 4201, 5163, 6459
nutrition 2108, 3496, 3727, 3736, 3738, 3739, 3740, 4012, 5253
photosynthesis 559
physiology 3414
plantations in
Australia 1299, 2108
Australia, Queensland 4515
Australia, Victoria 5272
Italy 3198
New Zealand 2191, 2519, 6513
planting stock 1390, 6459
propagation by air layering 3831
propagation by grafting 545
protection and conservation 7071
pruning 6604
roots
growth 3723
quantitative measures 3290
systems, distribution 560, 3723
seed
collection 3463
seed orchards 735, 740
seed production 539
seedlings 3414
shelterbelts 4335
silviculture 1803, 2624, 2625

Pinus radiata *contd.*
site preparation 5272
site quality 2662
soil 1115
effect on 3740, 6824
fauna 4336
flora 5246
spacing 1801, 1815
thinning 1801, 2000, 3837, 4542, 4720
tissue culture 1934, 2553
variation 734, 735, 834, 3414
water relations 649
weed control 1954, 1973, 6549
weedkillers, effect of 142
wildlife 1299, 2380, 7285
wind, effects 2702, 6811
wood, physical and mechanical properties 1135, 4720
P. remorata 3430
P. resinosa
allelopathy 2242
biomass production 1083, 4590
cone, collection 3820
conferences, symposia 1427
diseases and disorders
canker, bark diseases 4905
decay 7196
root 7196
wilts, dieback 2893
electrical phenomena 693
genetics/breeding 302
hybrids 313
increment and yield 130, 131, 132, 217, 1396, 3875, 4581, 5732, 6601, 6693
injury by
frost 1489
gases and fumes 3383, 4715
nematodes 858
insect pests
Col. 858
Hem. 5988, 5989
Hym. 1238, 1737, 6035
measurement tables 5719, 6693
measurement, tree and stand 1083, 1456, 6677
mycorrhiza 3490, 7151
nursery management 130, 4475, 4477
nutrition 659
plantations in
Canada 1427
Canada, New Brunswick 1423
Canada, Ontario 217
Canada, Quebec 6798
plantations on
former fields 659
hardwood sites 1030
mining wastelands 7316
planting methods 131, 132
planting season 570, 6523
planting stock 570, 693, 1016, 1017, 1396, 4474, 4475, 4477, 4478, 4509, 5169, 5176, 5177, 6516, 6523
pollen 4715
regeneration, artificial 1029
regeneration, natural 2242
respiration 4715
roots 6516
seed
pests and diseases 6393
treatment 3821, 6391, 6393
silviculture 3897
site quality 4581, 6720, 6729
spacing 2742, 2743, 3875, 6601
stand development 3897
stem, growth and development 2767
thinning 5732
underplanting in, broadleaved species 5639
variation 6677
weed control 130
wood
anatomy, growth rings 1489
density 2743
variation with growth factors 2767
P. rigida
economics 1603
hybrids 1603
insect pests, Lep. 4967
wood, anatomy 6969
P. rigida × ***P. taeda*** 6184
P. roxburghii 541, 1059, 1068, 1088, 1228, 1236, 1334, 1500, 1920, 2043, 2871, 3831, 5162, 5319, 6822, 6828, 6927, 7026

Pinus *contd.*
P. serotina 3818
P. sibirica
branches 4101
chemical constituents 1562, 4786
cone
growth and development 5867
production 4100, 4101
dendroclimatology 4101
forest types 2190, 4818
genetics/breeding 5924
increment and yield 4101, 4593
measurement tables 4572
oils 4786
photosynthesis 4789
plantations in, USSR, Russian region, northern 4415
resin-tapping 4560
seed, production 5924
seedlings 1562
shoot, growth and development 4101, 5867
weed control 3883
P. × ***sondereggeri*** 5589
P. 'Southern'
biomass production 5522
chemical constituents 5522
diseases and disorders, stem rusts 2902
ecology 4244
fertilizers 548
fire 4244
insect pests
Col. 3559, 4244
Hym. 5412
Lep. 7215
management 3698
nutrition 548
resources 6290
silviculture 5515
P. strobiformis 603, 4748, 4908
P. strobus 2579
allelopathy 2242
biomass production 2048, 3953
calorific value 269
chemical constituents 6024
Christmas trees 2635
cone, pests and diseases 3653
conferences, symposia 1427
cover crops 1365
diseases and disorders
canker, bark diseases 4915
decay 1632
foliage and shoot 3514
root 389
seedling 4157
stem rusts 352, 2903, 4908
wilts, dieback 3512, 5967
electrical phenomena 693
fertilizers 7, 1365, 5159
fire, danger 5807
foliage, chemistry 664, 4676
genetics/breeding 302, 303, 352, 1602, 1608, 2254, 6183
growth regulators, effect of 6424
hybrids 303
increment and yield 218, 1396, 1425, 2050, 2697, 3808, 5159, 6693
injury by
frost 6871
gases and fumes 1132, 2734, 4713, 4719, 5795
nematodes 858
salt 257
insect pests
Col. 352, 858, 1608, 2618, 3653, 6014, 6024
Hem. 3591, 3653
Hym. 434, 1722, 4989, 7241
Lep. 3653
litter/humus 5807
measurement tables 2697, 6693
measurement, tree and stand 2642, 2643, 6677
mixtures 5159
mycorrhiza 5338
nursery management 3847, 4157
photosynthesis 1132
plantations in
Canada 1427
Canada, Ontario 218
Canada, Quebec 6798
Germany, East 1425
Italy 3198

Pinus strobus *contd.*
planting stock 693, 1016, 1017, 1396, 4480, 4509, 5169, 6468
propagation by cuttings 6424
propagation by grafting 4450
propagation by needle fascicles 23
provenance studies 310, 1602, 3808
pruning 2635
regeneration, artificial 119, 1029
regeneration, natural 2242
seed
chemistry 2254
pests and diseases 3653
silviculture 1425, 2050, 5516, 6184
site quality 2053, 6720
stand development 6707, 6708
stand structure 2642, 2643
tending, general 1837
thinning 2618, 6707, 6708
tree surgery 3703
underplanting in, broadleaved species 5639
variation 6677
vegetation types 5323
weed control 3847
wood
anatomy 6968, 6969
density 3808
P. sylvestris
assortments, wood 6695
bark
chemistry 3412, 5307
decomposition 552
quantitative measures 3285, 5206
biomass production 73, 3289, 3956, 4594, 5724, 6709
book 2194
burning, controlled 1150
cambial activity 1562, 5301
chemical constituents 694, 1562, 2775, 2778, 3390, 4714, 4786, 5296, 5301, 5307, 5931, 6982, 7081, 7082, 7083, 7085, 7093
Christmas trees 2635, 3909
cleaning 576, 3253, 3254
cone
collection 6403
growth and development 702, 991, 5311
measurement 991, 4424
pests and diseases 3636
production 743
conversion of stands 564, 4550, 5088
cover crops 1365
crown, dimensions 1065
defoliation, artificial 697
dendrochronology 4358
dendroclimatology 2460, 3705, 7389
diseases and disorders 5942
canker, bark diseases 3534
decay 380, 381, 1192, 1193, 2273, 4163, 4873, 5954, 5957, 6454, 7161
deficiency 6855
foliage and shoot 1033, 2308, 2309, 2919, 4180, 4184, 4186, 4187, 4188, 4189, 4190, 4191, 5363
root 380, 381, 1192, 1193, 2273
seedling 1033, 1628, 2919, 4865
stem rusts 2899, 3521
wilts, dieback 3534, 4891, 5967, 6855
witches' brooms 5860
ecology 1250, 2194, 2195, 2196, 2197, 2201, 2231, 7242, 7243
economics 2692, 5735
farm woodlands 7349
felling 2672
fertilizers 7, 107, 108, 374, 1006, 1007, 1365, 1368, 1375, 1406, 1718, 1941, 1943, 2209, 2273, 2555, 3033, 3043, 3216, 3835, 3836, 3841, 3844, 4451, 5143, 5159, 5329, 5616, 5864, 6433, 6434, 6435, 6439, 6447, 6839, 6896, 6900
flowering 2785, 3815, 5868, 6180, 6232, 6462
foliage
chemistry 1522, 2223, 2775, 3413, 4595, 6975, 7238
measurement 2214
physical properties 6935
uses and products 3913
weight 3289, 3913

Pinus sylvestris *contd.*
forest types 646, 1119, 2194, 2231, 2234, 2247, 3672, 4133, 4818, 6674, 7055
fruiting 5329
fuel plantations 73
fungi associated with 7161
genetics/breeding 314, 326, 349, 743, 744, 1604, 1605, 1606, 4063, 4187, 5923, 5929, 5931, 6388, 7070, 7081, 7084, 7085, 7087, 7089, 7093, 7095
grazing and pasture 3687
ground cover 2203, 2247, 5915
growth regulators, effect of 2785, 3208, 5297, 5864, 6462
growth regulators in 1562, 4094
hydrology 1123, 2198, 2199, 3033, 3672, 4705, 5458, 6845
increment and yield 107, 108, 235, 238, 331, 596, 1009, 1048, 1050, 1368, 1878, 2015, 2147, 2215, 2217, 2227, 2460, 2555, 2668, 2697, 3295, 3344, 3850, 3939, 3955, 3960, 4063, 4535, 4580, 4602, 4611, 4615, 5159, 5616, 5663, 5716, 5729, 5735, 6232, 6261, 6434, 6435, 6460, 6551, 6552, 6619, 6713, 6714, 6740, 6744, 6807, 6896
injuries, general 851, 7006
injury by
deer 3660, 5035, 7271
drought 2705
dust 6873
fire 1562
frost 346, 3043, 6871
game 3018
gases and fumes 1524, 1678, 3376, 3382, 4714, 5260, 6873
ice 4001
logging 5671
mistletoe 1206
nematodes 2213
salt 1375
snow 1412, 1487, 3043, 3256, 4001
sunscorch 2692
toxic soils 1514
wind 2704
insect pests 872, 1746, 2215, 2315, 5986
Col. 835, 1231, 1678, 1718, 3636, 4247, 5405, 6023, 7195
Dipt. 3636
Hem. 1678, 2935, 3590, 5391, 7209, 7210
Hym. 435, 851, 2214, 2974, 2980, 3634, 7238, 7240
Lep. 414, 819, 1678, 1704, 2214, 2989, 3558, 3636, 5010, 6004, 7214, 7256
insecticides, effect of 5010
interplanting in, broadleaved species 3268
irrigation 1406, 2209, 3880
leaf
measurement 3289
physiology 2308
shedding 6935
light relations 1562, 3850
litter/humus 1119, 2221, 2222, 2223, 2224, 2713, 2718, 3841, 5773, 5774
logging 1410
logs, assortments 2653
management 1105, 1106, 1487, 2672, 5626
measurement tables 237, 596, 2015, 2697, 3295, 5221, 6696, 6740, 6744
measurement, tree and stand 212, 593, 1448, 1454, 3323, 3705, 3930, 3960, 4545, 4644, 5742, 6672
microclimate 592, 730, 1524, 2198, 2199
mixtures 564, 1048, 4550, 4595, 5159
morphology 5929
mycorrhiza 6454, 7142
nursery management 1009, 1382, 1954, 2564, 2582, 3850, 3851, 4184, 4465, 4482, 5165, 6447, 6454, 6458, 6461
nutrition 694, 1006, 1513, 1514, 2210, 2211, 2216, 2219, 2230, 2273, 2555, 2724, 2735, 2778, 3382, 3835, 3836, 4180, 6839, 6843
oils 4786
phenology 2147
phloem 5301
photosynthesis 692, 702, 1562, 2204, 2206, 2207, 4095, 4789, 5260, 5305, 6180, 6996
physiology 1007, 1562, 4092, 5297

Pinus sylvestris *contd.*
plantations in
Finland 6613
Great Britain, Scotland 4133
USSR, Central Asian republics 5059
USSR, European region 4584
USSR, Far East 4412
USSR, Russian region, northern 3853, 3956, 6519
USSR, Russian region, south-eastern 5054
USSR, Siberian region 5057
plantations on
burned sites 3853, 4584
erodible sites 5054, 5057, 5446
hardwood sites 6545
marginal, waste, degraded land 3680, 4310
mining wastelands 2724, 3680, 4310, 7326
planting methods 3873, 4503, 6512, 6519
planting stock 325, 1009, 1013, 1033, 1397, 2476, 3851, 3873, 4465, 5169, 5178, 5296
pollen 4103, 6982
pollination 743, 1604, 7095
pollution control by 1300
propagation by cuttings 3208
protection and preservation 1298
protection forest 4423
provenance studies 314, 328, 330, 1349, 1606, 3465, 5591, 5868, 6388, 7076
pruning 2635, 5657, 6608
radiation, effect of 2735, 4686
regeneration, artificial 1031, 6514
regeneration, natural 3853, 3864, 4022, 4497
remote sensing 4873
research 2195, 7082
resin 279, 3413, 7002
resin-tapping 1443, 1444, 4561, 5329
resources 5084
respiration 702, 2205, 6180
review 5591
roots
growth 1406, 2211, 4768, 6817, 6845
physiology 1513, 2210
quantitative measures 1406, 2212
systems, distribution 1513, 6206, 6931
sap 3642
seed
germination 3812
production 991, 3465, 3812, 3815, 5143
seed orchards 325, 326, 331, 332, 335, 4423, 5864, 6232
seed trees and stands 5864
seedlings 1514
shoot 6996
growth and development 1563, 4063, 5929
silvicultural systems 1967, 3256, 5626
silviculture 564, 1048, 1050
site preparation 5054
site quality 5715, 6740
site requirements 1878, 6713, 6714
soil 1119, 1522, 2218, 2220, 2225, 2226, 3352, 3672, 6435, 6823, 7161
effect on 2713
flora 646, 1150, 6843
soil cultivation 3841, 5641
soil requirements 6817
spacing 134, 3955, 4549
stand characteristics 4024
stand density 592, 4768, 5716, 6619, 6672
stand development 2200, 2202
stand quality 134, 1050, 2586, 5221, 5263, 6674
stand structure 2704, 3930, 4541, 4615, 6232
stem, form 212, 3285
stump, flora and fauna 4254
tending, general 2476, 6581
thermal relations 346, 1563
thinning 1410, 2614, 2615, 2704, 3256, 3906, 4541, 4545, 4546, 5185, 5663, 5671, 6339, 6355, 6433, 6571, 6573, 6586, 6672
tissue culture 5297
transpiration 892, 1123, 2204, 2205, 2207, 2208, 4705, 5305
tree classes 2586

Pinus sylvestris *contd.*
tree statics/dynamics 1488
underplanted with, broadleaved species 1434
underwood 730, 2935
variation 314, 593, 5278, 5305, 5931, 7084
water relations 695, 2198, 2206, 2207, 2208, 3362, 5178, 5278, 7161
weed control 576, 1954, 2582, 4535, 6545, 6551, 6552, 6559
weedkillers, effect of 142, 6559
wildlife 7273
wood
anatomy 5263, 6900
cambium 2150
cell-wall 2150
growth rings 6896
chemistry 4081, 4784, 5263
density 4602
physical and mechanical properties 5263, 6900
quality 4602
variation, genetic 1448, 6900
variation with growth factors 1448, 4081
P. sylvestris mongolica 5994, 6610
P. tabulaeformis 1976, 2272, 5994, 7150
P. taeda
bark, quantitative measures 1063
biomass production 1315, 4596, 5522, 7345
burning, controlled 674, 5517
chemical constituents 738, 7100
cone
handling, processing 3818
pests and diseases 1245, 4211
production 4428
diseases and disorders
decay 2282
root 385, 2282, 2887
seedling 385, 5952
stem rusts 731, 1651, 2298, 3517, 4054, 5356, 5357, 5358, 5359, 5969, 7178
economics 1603, 4674
fertilizers 7, 1230, 1366, 4307, 4428, 4444, 4458, 5519, 5521, 5613, 7223
flowering 1935
fuel plantations 530, 1337
fungicides, effect of 7139
genetics/breeding 319, 731, 732, 738, 7099, 7107
grazing and pasture 5526
hybrids 737, 1603, 5589, 7107
hydrology 891
increment and yield 498, 1024, 1072, 3932, 4444, 4612, 5520, 5524, 5727, 5733
injury by
artificial wounding 2998
cattle 2998
girdling 2998
ice 1486
pigs 5028
tillage 5606
insect pests
Col. 432, 832, 840, 847, 1223, 1228, 1230, 2887, 3567, 3568, 3569, 3620, 3622, 3647, 3648, 4231, 4235, 4236, 4252, 4267, 5011, 5406, 5409, 7223, 7225
Hem. 1212, 2317, 4205
Lep. 876, 1221, 2940, 3595, 4211, 5522, 7215
irrigation 4428
light relations 698
litter/humus 6831
management 240, 4674, 5524
measurement tables 4612
measurement, tree and stand 214, 600, 3319, 4631, 5589
mycorrhiza 572, 1189, 1621, 2263, 3491, 4846, 7139, 7325
nursery management 187, 572, 1189, 1960, 3847, 5619, 6455
nutrition 659, 1315, 2109, 5786
photosynthesis 6993
plantations in
Brazil 2597
USA 1977
USA, Alabama 6603
USA, Tennessee 6603

Pinus taeda *contd.*
plantations on
erodible sites 6539
former fields 659
marginal, waste, degraded land 7324, 7325
mining wastelands 4307, 7316, 7320
wet lands 4525
planting season 137
planting stock 137, 572, 2563, 2597, 4846
pollination 732, 5605
propagation by grafting 1935
provenance studies 535, 4414
pruning 5519
radiation, effect of 3389
regeneration, artificial 119, 1391
regeneration, natural 5662
remote sensing 5520
respiration 6993
roots, growth 6455
seed
germination 5604
grading, quality 5604
pests and diseases 4211
production 4428, 7107
seed orchards 876, 1245, 3517, 4205, 4428, 5605
variation 5604
silvicultural characters 5662
silvicultural systems 891, 5523, 5662, 6482, 6580
silviculture 5516, 5524
site preparation 5198, 5518, 5643, 6539
site quality 1072, 5727
soil 4699
effect on 5525
soil requirements 2094
sowing, direct 1391, 1977
spacing 1024, 3932
stand structure 4612
thinning 5519, 6580, 6603
tissue culture 5357, 5358, 5359
translocation 2109
transpiration 4702
variation 1881, 7100
weed control 1039, 3847, 5518
weedkillers, effect of 6455
wood
anatomy
abnormal 4783
cambium 4783
density 1063, 4143
moisture relations 1063
P. taiwanensis 2536, 2537, 5615, 5635, 7074
P. teocote 2579
P. thunbergii
allelopathy 1171
cone, growth and development 6400
diseases and disorders, canker, bark diseases 4172
foliage, measurement 3284
genetics/breeding 2251, 4832
hybrids 2251
increment and yield 3292
injury by, nematodes 874, 3566, 5005, 7222
insect pests
Col. 874, 2965, 5005, 7222
Dipt. 4994
leaf, measurement 3284
planting methods 1833
propagation by cuttings 2550
seed
germination 2535
physiology 2535
production 6400
stand structure 3292
water relations 3029
wood, anatomy, cell-wall 4774
P. tropicalis 313
P. uncinata 3052
P. virginiana
fertilizers 4307
genetics/breeding 319
injury by, gases and fumes 6887
insect pests, Lep. 876, 1221
mycorrhiza 1621
plantations on, mining wastelands 3681, 4307
pollards 2620
seed, seed orchards 876

Pinus virginiana *contd.*
sowing, direct 3681
P. wallichiana 797, 3755, 4164, 4858, 5209, 7026
P. washoensis 5584
P. yunnanensis 5398
Pisolithus tinctorius 5, 35, 368, 375, 755, 758, 1189, 1619, 2262, 2263, 2264, 2265, 2873, 3490, 3491, 4154, 4844, 4845, 4846, 5195, 5336, 5516, 5948, 5971, 7133, 7135, 7136, 7137, 7138, 7139, 7140, 7141, 7321, 7325
***Pissodes* spp.** 846
P. castaneus 4979
P. notatus 1210, 4979
P. strobi 352, 846, 1608, 1711, 2618, 3626, 5405, 6014, 6024, 6183, 7224
P. terminalis 846
P. validirostris 3636
Pistacia atlantica 685, 2143, 5070
P. chinensis 2448
P. khinjuk 1932
***Pithecellobium* spp.** 689
Pityogenes chalcographus 425, 1971, 3652, 4237, 4947, 4982
***Pityophthorus* spp.** 2962, 4248
Plagithmysus bilineatus 4985
***Platanus* spp.** 786, 3592, 4896, 4904, 4911
P. × acerifolia 1018, 1475, 1516, 3265, 7197
P. occidentalis
biomass production 1460, 5522
coppice 1460, 1864
diseases and disorders, canker, bark diseases 186, 1614
economics 180
fertilizers 555, 4307
fuel plantations 1460, 4701
general information 3265
genetics/breeding 1614
growth regulators, effect of 1042
hydrology 4701
increment and yield 1460
injury by
gases and fumes 6876
salt 257
wind 1111
mixtures 3865
nursery management 187, 194
plantations on, mining wastelands 4307
pollards 2620
regeneration, artificial 180, 195
regeneration, natural 180
research 195
seed, storage 193
site quality 4688
site requirements 4688
soil requirements 555
spacing 5520
street trees 1111
P. orientalis 787, 3265, 4360, 4413, 4923
P. wrightii 3030
***Platycarpum* spp.** 1557
Platyphytoptus sabinianae 3638
Platypodidae 1719, 2346, 4948, 6021
***Platypodium* spp.** 2175
P. elegans 90
***Platypus* spp.** 6657
Plectophomella concentrica 3529
P. ulmi 3529
Pleistophora schubergi 405, 1740, 2987, 4217, 4259
***Plenckia* spp.** 2175
Pleolophus basizonus 2974
Pleurotus ostreatus 1062, 2891
***Podocarpus* spp.** 711, 6287
P. dacrydioides 2583, 2584
P. ferrugineus 607, 2583, 2584
P. latifolius 2559
P. macrophylla 2359
P. spicatus 2583, 2584
P. totara 2583, 2584
Podocnemis expansa 3014
Podosesia aureocincta 5992
P. syringae 2328, 2329, 2929, 5992
Poecilia reticulata 6069
Poecilips fallax 430
Pollacia elegans 361
Polyalthia longifolia 6946
Polygalaceae 6944
Polygraphus polygraphus 3631
P. proximus 7226
***Polyporus* spp.** 3593

Polyporus *contd.*
P. abietinus (see *Hirschioporus abietinus*)
P. adustus 4882
P. betulinus 1639, 2891
P. compactus 7158
P. tomentosus 3501
Pomaderris apetala 2804
Pongamia glabra 1509
P. pinnata 3498, 6542
Pontania proxima 1234, 1725
Populus **spp.**
bark, chemistry 4785
bibliography 681, 682
biomass production 74, 1465, 2048, 2051, 6629
book 2869
branches 2142
browse 3471, 7118
buds 4785
chemical constituents 4785
conferences, symposia 358
control, chemical 3252
coppice 76, 5134
diseases and disorders 358, 359, 362, 366, 2869, 3259, 3479, 7144
canker, bark diseases 365, 2299, 4903, 4909, 5354, 5362
decay 363, 364, 365, 3504, 4882, 4909
foliage and shoot 360, 361, 785, 1198, 1663, 2907, 2914, 2921, 3539, 3540, 3541, 3542, 4918, 4920, 5373, 5966, 5979, 5983, 7188, 7189, 7194
stem rusts 1198, 2907, 2921, 3539, 3541, 4920, 5373, 5966, 7189
virus 361, 365
distribution 6147
ecology 1250, 3011
economics 6629, 6786
fertilizers 1005, 3216
fire, danger 4746
foliage, chemistry 3541
forest types 3431, 7387
fuel plantations 76, 341, 4407, 5134
fungi associated with 3361
general information 3476
genetics/breeding 302, 341, 349, 1612, 1663, 2914, 3260, 3465, 3470, 3471, 3476, 6182, 6387
grazing and pasture 3011
historical records 3431
hybrids 1612
increment and yield 6827
injury by
frost 201, 367
gases and fumes 4717
mammals 3022, 6621
insect pests 6621
Col. 2338, 5433, 6012, 6020, 6043
Hem. 3587
Hym. 5423
Lep. 806, 822, 1209, 3616, 5401, 5992, 7251
interplanting with, broadleaved species 4557, 5638
irrigation 5581, 5798
measurement, tree and stand 2642, 2643, 2650
names, standard/registered 714
nursery management 367, 4483
plantations in
Germany, West 6387
Italy 3198, 5668, 5669, 6098
USSR, Transcaucasia 4413
plantations on
erodible sites 1897, 3022
former fields 5666, 5667
watersides 5041
planting methods 4508
propagation by cuttings 201, 1005, 4483
protection forest 7291
provenance studies 3259
pruning 4882
research 3744
rotation 5581, 6629
shelterbelts 1897, 7312
silviculture 2142, 3259, 5581, 6610, 6629, 6636
soil requirements 6827
spacing 2142
stand structure 298, 2642, 2643
taxonomy 714, 6147
tissue culture 547
variation 6147
Populus **spp.** *contd.*
water relations 2921
weed control 367
weedkillers, effect of 1994
wood, variation with growth factors 5798
P. **(*Aigeiros*)** 3469, 3470
P. **(*Leuce*)** 986, 3470, 7119
P. **(*Tacamahaca*)** 3469, 3470, 6387
P. alba 986, 1018, 4407, 5151, 5938, 6426
P. alba × ***P. grandidentata*** 1940, 6377
P. **'Androscoggin'** 4556, 6387
P. angulata × ***P. trichocarpa*** 198, 199, 200
P. **'Astria'** 3465, 5610
P. **'B-201-B'** 198, 199, 200, 6446
P. **'B-60'** 3519
P. balsamifera 537, 651, 653, 901, 1389, 1933, 3896, 4303, 4582, 4692, 5463
P. balsamifera × ***P. trichocarpa*** 200
P. balsamifera × ***P. tristis*** 2506
P. × ***berolinensis*** 547, 6012
P. **'Bietigheim'** 4556
P. × ***canadensis*** **aggr.** 1653
biomass production 198
diseases and disorders, foliage and shoot 393
economics 5735, 7323
fertilizers 199
forest types 584
increment and yield 653, 4154, 5735
insect pests, Col. 6012
leaf, physiology 4085
mycorrhiza 4154
plantations in, Belgium 584
plantations on, mining wastelands 7323
pruning 2619
silviculture 2006
spacing 198
transpiration 4016
variation 4085
water relations 653, 4016
wood, variation with growth factors 6892
P. canescens 986, 4928, 7192
P. canescens × ***P. tremuloides*** 986
P. ciliata 4104, 4407
P. deltoides
allelopathy 1170
biomass production 1460
chemical constituents 4714
coppice 1460
diseases and disorders
canker, bark diseases 186
decay 3548, 5940
foliage and shoot 315
economics 180
fertilizers 1946
fuel plantations 1460
genetics/breeding 315, 652, 5940
increment and yield 1460, 1946
weight 1067
injury by
drought 652
gases and fumes 3380, 4714, 6876
interplanting with, agricultural crops 5482
irrigation 1404
litter/humus 1500
nursery management 194
nutrition 2158
physiology 2158
plantations in, USA, southern 446
pollen 4104
regeneration, artificial 180, 195
regeneration, natural 180
research 195
site quality 4688
site requirements 4688
soil requirements 2094
tissue culture 4429
tree surgery 5940
wildlife 446
P. deltoides occidentalis 1071, 3286
P. deltoides × ***P. nigra*** 2338
P. deltoides × ***P. trichocarpa*** 3386, 6875, 2338
P. **'DN-21'** 4154
P. **'Dorskamp'** 74, 6452
P. × ***eugenei*** 200, 2506
P. euphratica 3542
P. euramericana (see *Populus* × *canadensis* aggr.)
Populus *contd.*
P. **'Flevo'** 3226
P. fremontii 3030
P. **'Fritzi Pauley'** 4556
P. gamblei 1012
P. **'Gelrica'** 3880
P. grandidentata 1079, 1462, 1972, 2663, 3317, 3428, 4586, 5639, 5938, 6377, 6677, 6728
P. **'Hybrid 275'** 1244
P. **'I-214'** 1404, 1405, 2150, 2551, 2611, 2631, 2649, 2732, 3370, 4416, 5636, 5699, 5798, 6541
P. **'I-45/51'** 1936, 4154, 4416, 4429, 5152, 6505
P. **'I-63/51'** 2418, 5594
P. **'I-69/55'** 5594
P. **'I-72/58'** 5594
P. koreana 6962
P. koreana × ***P. trichocarpa*** 4556
P. laurifolia 4407
P. **'Löns'** 1665, 4556
P. **'Marilandica'** 6892
P. maximowiczii 3051, 3519
P. maximowiczii × ***P. trichocarpa*** 200, 6387
P. monilifera (see *Populus deltoides*)
P. **'Muhle Larsen'** 4556
P. **'NC5260'** 5987
P. **'NC5332'** 5987
P. **'NC5351'** 5987
P. **'NE-1'** 1936, 2506
P. **'NE-229'** 2506
P. **'NE-299'** 1936
P. **'NE-353'** 1936
P. **'NE-383'** 2506
P. **'NE-386'** 2506
P. **'NE-388'** 4020
P. **'NE-42'** 6387
P. **'NE-58'** 1936
P. **'NE-98'** 2506
P. **'Neupotz'** 4556
P. nigra 393, 601, 1788, 2338, 3548, 3642
P. nigra italica 4407
P. nigra italica × ***P. simonii*** 547
P. nigra × ***P. nigra italica*** 1653
P. nigra × ***P. trichocarpa*** 200
P. nigra × ***P. simonii*** 547
P. **'Northwest'** 4154
P. **'Oxford'** 4556
P. pruinosa 2161
P. pseudosimonii 547, 6012
P. pyramidalis (see *Populus nigra italica*)
P. **'Q-36-Q'** 198, 199, 200
P. **'Rap'** 74, 6353
P. **'Regenerata'** 1653, 1665, 2022
P. **'Regenerata Deutschland'** 4556
P. **'Robusta'**
diseases and disorders, virus 1665
increment and yield 4154
irrigation 1405, 3880, 5798
measurement tables 2022
measurement, tree and stand 2021, 2650
pollution control by 1405
propagation, vegetative 5609
wood, variation with growth factors 5798, 6892
P. **'Rochester'** 4556
P. **'Serotina'** 6892
P. simonii 6012
P. suaveolens 4818
P. tacamahaca (see *Populus balsamifera*)
P. **'Tennenhoeft'** 3795
P. tomentosa 2258
P. tremula
diseases and disorders, decay 4089, 6190
fertilizers 1127
hybrids 986, 6426
increment and yield 653, 4600
light relations 6997
measurement tables 5221, 6696
mixtures 5189
nurse to, conifers 6628
nutrition 1127
photosynthesis 6997
plantations in
Poland 1130
Sweden 5748
plantations on, polluted sites 1130
pollen 4097
propagation by cuttings 6426
protection forest 6628
regeneration, natural 4309, 5622, 5629

Populus tremula *contd.*
roots, systems, distribution 5629
silviculture 1429
stand quality 5221
successional role 4385
suckering 5629
water relations 653
P. tremula* × *P. tremuloides 986, 1127, 6426
P. tremuloides
allelopathy 2242
biomass production 2029, 3954, 4582, 4586, 4590, 4643, 6736
browse 5030
burning, controlled 5030
calorific value 269
control, chemical 141
coppice 6490, 6598
defoliation, artificial 3398
dendrochronology 4565
diseases and disorders 5950
canker, bark diseases 316, 2294
complex or unidentified 4795
decay 7156
root 2049, 7156
ecology 721, 4125
economics 6796
fire
danger 1142, 4748
reaction to 4047
forest types 297, 4125, 4818, 5326, 5494
genetics/breeding 316
grading, tree 6671
grazing and pasture 5021
habit 3236
hybrids 986
hydrology 4692
increment and yield 603, 1079, 1462, 2049, 2087, 3938, 4601, 5702, 6693
injury by
gases and fumes 263, 4712
recreational activities 4343
salt 264
insect pests
Col. 2294
Lep. 1695, 2294, 2945, 2953, 4961, 4976
litter/humus 640, 4692
measurement tables 2023, 5719, 6693
measurement, tree and stand 1079, 1452
mixtures 5494
nutrition 4712
phenology 3236
physiology 996, 5312
plantations in, USA, western 297
planting stock 1972
propagation by cuttings 996, 3205, 4430, 4431, 4432, 5151
propagation, vegetative 5312
regeneration, natural 1388, 2590, 3236, 4500, 5030
roots, adventitious 5312
seed
collection 537
germination 1931, 2543
storage 537, 1931
seedlings 2543
silvicultural systems 3896
site preparation 1036
site quality 1462, 2663, 3938, 6720, 6728
stand density 5702
stand quality 2238
stand structure 2049
suckering 1036, 5030, 5950
thermal relations 7113
thinning 6598
underplanted with, conifers 5639
variation 5702, 7113
wildlife 2374
P. trichocarpa 1429, 2032, 2338, 3470, 5936, 6387
***P.* 'Tristis No. 1'** 1936, 2028, 2034, 4408, 5722
***P.* 'Walker'** 6722
***P.* 'Wisconsin-5'** 2506
***P.* '77/56'** 6387
Poria cocos 7158
P. mutans 7158
P. weirii (see *Inonotus weirii*)
Porthetria dispar (see *Lymantria dispar*)
Pourouma bolivarensis 4799
P. saulensis 4799
P. stipulaceae 4799
Pouteria neglecta 7032
***Pradosia* spp.** 5283
Prionoxystus robiniae 2328, 2929
Priophorus ulmi 3633
Pristiphora abietina 1745
P. erichsonii 433, 1724, 2316, 4259
Pritchardia napaliensis 2787
Propylaea quatuordecimpunctata 7210
***Prosopis* spp.** 3410
P. chilensis 988
P. cineraria 1286, 2552
P. farcta 5601
P. glandulosa 2607, 2777
P. juliflora 525, 683, 1791, 6542, 7314
P. laevigata 3279
P. pallida 197
P. reptans 2607
Proteaceae 3433
Proteoteras willingana 2995
Proterodiplosis radicis 1235
Protium serratum 4929
***Prunus* spp.** 1047, 3679, 5041, 5768
P. africana 5321
P. amygdalus 5768
P. avium 442, 856, 1429, 2658, 3350, 4558, 5464, 5939, 6417, 6559
P. brasiliensis 117
P. fenzliana 5768
P. georgica 5768
P. jamasakura 3409, 6961
P. maackii 2452
P. nana 5768
P. padus 1788
P. pensylvanica 1968, 3236
P. rubicunda 5768
P. sellowii 2597
P. serotina 3703
control, biological 2603, 6547
control, chemical 1408
diseases and disorders, decay 6547
foliage, chemistry 664
genetics/breeding 302, 7122
increment and yield 1462
injury by, gases and fumes 4718
insect pests
Col. 2961
Dipt. 857
Lep. 5999
measurement, tree and stand 6677
mixtures 3865
plantations in, Poland 1434
provenance studies 7122
regeneration, natural 127, 1434
seed, storage 193
site quality 1462, 2663, 6728
tending, general 1837
underplanting in, conifers 1434
variation 6677
wood, defects 857
P. serrulata 1840
P. spinosa 4120
Psammotermes rajasthanicus 7208
Pseudanthonomus hamamelidis 2344
Pseudobunaea tyrrhena 1694
Pseudohylesinus grandis 7220
P. granulatus 7220
P. nobilis 7220
Pseudolarix amabilis 4781
***Pseudomonas* spp.** 7250
P. cepacia 7151
P. syringae 362, 2923, 4933
P. syringae myricae 5375
P. syringae savastanoi 3549
***Pseudotsuga* spp.** 7024
P. flahaulti (see *Pseudotsuga menziesii glauca*)
P. glauca (see *Pseudotsuga menziesii glauca*)
P. menziesii
arthropods associated with 4199
biomass production 73, 2038, 3317, 3740
browse 2772
burning, controlled 2752, 4045, 4762
Christmas trees 308
cleaning 3254
cone
pests and diseases 854
production 5397
conversion of stands 4550
crown
dimensions 4578
weight 5218
dendroclimatology 933
diseases and disorders 4941
Pseudotsuga menziesii *contd.*
diseases and disorders *contd.*
complex or unidentified 2779
decay 382, 1631, 1633, 2882, 2970, 3548, 4162, 7162
root 389, 690, 2349, 2877, 2883, 3500, 4162, 4165, 4875, 5961, 7151
seedling 4866, 7151
wilts, dieback 5964
ecology 3472, 5327, 7064, 7065
economics 1479
fertilizers 112, 372, 1945, 1948, 2266, 3033, 3143, 3220, 3741, 3839, 3870, 4442, 4443, 4453, 4455, 4456, 4709, 5257, 7068
fire
control 1537
danger 4741, 4748, 5806
reaction to 7370
foliage
area 1463, 2156
chemistry 2156, 2772
measurement 5695
weight 2017, 2156, 4578
forest types 1544, 1597, 2233, 2826, 5327, 5901, 6674, 7055
fuel plantations 73
genetics/breeding 308, 349, 350, 1182, 5330, 5922, 7073, 7098, 7110
grazing and pasture 1762
hydrology 2391, 3033, 5248, 7297
increment and yield 603, 933, 1045, 1463, 1468, 1945, 1948, 1959, 2005, 2026, 2047, 2105, 2534, 2697, 3137, 3139, 3307, 3377, 3839, 3935, 3942, 3957, 4065, 4613, 5747, 6704
injury by
chemicals 5258
deer 3017
drought 250, 2105, 3237
frost 1953, 1959, 3348, 6232, 6813
logging 3377
mammals 3866
mistletoe 1668
snow 2703, 3256
insect pests 854, 4941, 4943, 6191
Col. 1229, 2322, 2349, 2355, 2883, 2970, 4156, 6022, 6032, 7229
Dipt. 1728
Hem. 4207, 6040
Hym. 7237
Lep. 440, 808, 820, 1217, 1699, 1703, 1708, 1709, 1729, 2322, 2944, 2991, 3602, 3613, 3615, 3644, 4156, 4221, 4223, 4969, 4972, 4974, 4997, 5388, 5397, 6003, 6011, 6044, 6204
irrigation 2105
litter/humus 1116, 3353, 3740, 4045, 6829
logging 450, 2723
logging waste 2679, 5745
management 1105, 3698, 4619
measurement tables 2023, 2697, 3139, 3957, 4613
measurement, tree and stand 598, 2016, 2026, 2652, 4574, 6963
mixtures 372, 564, 2005, 4550, 4553, 5659, 5747
mycorrhiza 759, 1625, 2266, 2269, 3482, 5339, 5945, 7141, 7151
nursery management 759, 1382, 1951, 1952, 1954, 1959, 2266, 2564, 2581, 3482, 6465
nurses for 4526
nutrition 250, 2534, 3118, 3740, 4087, 5257
palaeoecology 3422, 7024
photosynthesis 4084
physiology 133, 704
plantations in
Germany, West 3246
Italy 3198
Norway 1468
USSR 5588
USSR, Baltic states 4065
planting 2592
planting methods 3870, 4503
planting stock 133, 1398, 1952, 3237, 3238, 3870, 6465
pollination 1352, 2166
propagation by grafting 544, 5149

Pseudotsuga menziesii *contd.*
provenance studies 307, 308, 350, 1919, 1923, 2532, 2534, 3465, 5586, 5593, 6232, 7097
regeneration, artificial 1020, 3762, 3872
regeneration, natural 1020, 1762, 2752, 3762
remote sensing 1097, 1476, 2684
reproductive behaviour 6408
respiration 4084
roots, growth 690, 2581, 4003
rotation 2627, 4619
sap 6207
seed
collection 4427
dispersal 5597
germination 2719, 4427
pests and diseases 540, 1673, 2541
production 5597
seed orchards 1352, 1353, 1673
sources of supply 1919
seedlings 704
silvicultural systems 2723, 3256
silviculture 564, 3246, 7064, 7065
site preparation 2752
site quality 3935
site requirements 6704
soil 643, 4709, 5259
effect on 6832
fungi 6844
soil requirements 4003
spacing 3923, 6898
stand density 2047, 4571, 6692
stand development 2806
stand quality 6674
stem, form 2152
successional role 2233
taxonomy 3422, 7024
tending, general 6581
thermal relations 1097
thinning 1045, 1046, 1945, 1948, 2047, 2752, 3140, 3256, 3890, 4619, 4709, 6692, 7068
tissue culture 7073
tree statics/dynamics 2152
underwood 7068
variation 3472, 4969
water relations 250, 1559, 2719, 2720, 5248, 7097
weed control 1954, 4526, 5184, 6559
weedkillers, effect of 142, 5184, 6559
wood
anatomy, growth rings 6898
decay 4694
P. menziesii glauca 112, 307, 2526, 4760
Psidium guajava 470
***Psychotria* spp.** 1260
Psyllidae 7211
Pteralyxia elliptica 2787
Pterocarpus angolensis 2518
P. indicus 2303, 3829
P. lucens 1285
P. santalinus 7115
Pterocelastrus tricuspidatus 128
Pterodon pubescens 90
***Pterogyne* spp.** 2175
Pteroma plagiophleps 2938
Pterygota alata 6673
Pucciniastrum coryli 4925
P. epilobii 7184
P. fagi 1202
P. goeppertianum 7184
Punica granatum 4112
P. protopunica 4112
Purshia tridentata 3001, 3062, 5013, 5016, 5022, 5065, 5396
Putranjiva roxburghii 6974
Pygeum africanum 5837
***Pyronota* spp.** 1229
Pyrrhalta luteola 3265
Pyrus calleryana 4354
P. communis 5731, 6632
P. pashia 4104
***Pythium* spp.** 3510
P. mamillatum 789
Qualea amapaënsis 713
Quaternaria quaternata 5402
***Quercus* spp.**
arboriculture 6416
biomass production 3317
coppice 4493
dendroclimatology 4360
diseases and disorders 3581

***Quercus* spp.** *contd.*
diseases and disorders *contd.*
canker, bark diseases 186
decay 4883
foliage and shoot 1656, 1657, 4927
root 4881
wilts, dieback 2896, 4895, 4896, 5352, 5963
distribution 3433
farm woodlands 4410
foliage
chemistry 4927
measurement 3317
optical characteristics 7069
forest types 3431, 6822
fruit 4410
fungi associated with 4881
ground cover 2859
hedgerow trees 905
historical records 3431
honeydew 590
honey/nectar 590
hydrology 4704, 5451, 6865
increment and yield 1048, 2050, 2666, 6725
injury by
gases and fumes 7198
mistletoe 790, 7198
salt 4360
insect pests 185, 3581
Col. 4981, 6019
Isopt. 3589
Lep. 406, 806, 1685, 1738, 3639, 4957, 4967, 5395, 5400, 5992
leaf, morphology 2155
litter/humus 1117, 4004
management 181, 1105, 6240
measurement tables 2666
measurement, tree and stand 4655
mixtures 1048
mycorrhiza 3489
nursery management 187
nutrition 4704, 6865
ornamental value 905
pollen 4812
regeneration, natural 4493
remote sensing 1097
seed, storage 193
shelterbelts 905, 3581
silvicultural systems 5523
silviculture 1048, 2050
site quality 215, 1315, 6721, 6725
site requirements 1315
soil, effect on 6822
soil requirements 4696
stem, form 6584
taxonomy 1891, 2155
thermal relations 1097
thinning 4540, 4548, 6583, 6584
weed control 1409
Q. acuta 6483
Q. acutissima 2448, 3407
Q. agrifolia 411, 861, 7172
Q. alba
bark, anatomy 1154
dendrochronology 1843
diseases and disorders
decay 7156, 7158
root 7156
economics 6596
fertilizers 555
flowering 543
increment and yield 6999
injuries, general 5797
injury by
drought 633
frost 5797
insect pests
Col. 2964
Lep. 856
irrigation 633, 6999
measurement, tree and stand 3971
mixtures 3865
mycorrhiza 7135
nutrition 2109
phenology 633, 6999
pollards 2620
provenance studies 1345
regeneration, artificial 119
seed
pests and diseases 5027
production 543
storage 193

Quercus alba *contd.*
soil requirements 555
tending, general 1837
thinning 6596
translocation 2109
variation 543, 1345
water relations 633, 6999
Q. aliena 5369
Q. baloot 5319
Q. boissieri (see *Quercus infectoria*)
Q. borealis (see *Quercus rubra*)
Q. calliprinos 6902
Q. canariensis 6416
Q. castaneifolia 586, 4413
Q. cerris
coppice 5726, 6488, 6493, 6570
diseases and disorders, foliage and shoot 4192
economics 5735
forest types 6267
grazing and pasture 6488
increment and yield 5726, 5735
leaf, morphology 2155
measurement tables 5726
seed, fodder 586
stand development 5889
thinning 6570
Q. cerris ambrozyana 6416
Q. coccifera 1588, 4033, 5814, 6365, 6924
Q. coccinea 119, 149, 586, 837, 1315, 1345, 2964, 6372, 6684, 7158
Q. conferta (see *Quercus frainetto*)
Q. dalechampii 2155, 6870
Q. dentata 586
Q. dilatata 1218, 6828
Q. douglasii 861
Q. dumosa 5018
Q. faginea 2860
Q. falcata 181, 1154, 1345, 2326, 4569
Q. falcata pagodaefolia 193, 4688
Q. floribunda 5775
Q. frainetto 2155, 2746, 6870
Q. fusiformis 725
Q. gambelii 605, 2608, 4748, 5016
Q. geminata 1542
Q. glauca 6483
Q. havardii 1493
Q. hemisphaerica 2326
Q. × hispanica lucombeana 6416
Q. iberica 586
Q. ilex 1810, 2713, 4033, 5637, 5726, 6416, 6555, 6561, 6924, 6979, 6984, 6985, 7046
Q. ilicifolia 2868
Q. imbricaria 586, 1345
Q. incana 1218, 1446, 3831, 6527, 6828
Q. infectoria 4696
Q. ithaburensis 6902
Q. kelloggii 3885, 3886, 4577
Q. laevis 1542, 6527
Q. lanuginosa 4033
Q. laurifolia 5249, 6518
Q. leucotrichophora 5775
Q. libani 586
Q. longipes 4413
Q. lyrata 555
Q. macranthera 438, 586
Q. macrocarpa 586, 747, 1263, 1345, 2150, 3223, 7141
Q. marilandica 790, 1345, 2868, 3006
Q. michauxii 4688
Q. miyagii 3232
Q. montana 5797
Q. nigra 180, 186, 193, 194, 195, 1345, 2326, 4688, 5249, 5522, 5696
Q. nuttallii 138, 186, 189, 195, 4688
Q. palustris 5, 114, 257, 555, 586, 658, 758, 924, 1047, 1345, 3681
Q. pedunculiflora 2155
Q. persica 4696
Q. petraea
conversion of stands 4550
coppice 300
dendrochronology 5870, 6127
dendroclimatology 6127
diseases and disorders, foliage and shoot 5976
distribution 4816
ecology 7242, 7243
economics 6801, 6802
forest types 1119, 6107
injury by, grazing 567
leaf, morphology 2155
light relations 2746

Quercus petraea *contd.*
litter/humus 1119
management 5088, 5626
measurement tables 2651
microclimate 2746
mixtures 4550
palaeoecology 5870
phenology 4064
plantations on, dry sites 3350
planting methods 6503
planting stock 3240
provenance studies 3465
regeneration, natural 567, 3862
seed 3862
silvicultural systems 5626
silviculture 1429, 5088, 6801, 6802
site quality 5715
soil 1119
successional role 300
wood, identification 5870
Q. phellos 180, 186, 189, 193, 194, 195, 1345, 4688
Q. polycarpa 2155
Q. prinus 2109, 2243, 2620, 3681, 5027, 6995, 7158
Q. pubescens
forest types 7046
leaf, morphology 2155
mycorrhiza 4853, 4854
Q. pungens vaseyana 3003
Q. pyrenaica 2712, 2718, 2860, 5771
Q. robur
allelopathy 4117
anatomy 3399, 5776
arboriculture 1840
biomass production 77, 2051
cleaning 576
control, chemical 3252
conversion of stands 4388
coppice 587, 1887
dendrochronology 4357, 4358, 5080, 5490, 5870, 7391
diseases and disorders
canker, bark diseases 6028
decay 4876, 5956
foliage and shoot 4192, 4923, 5972
ecology 793, 1250
economics 2629, 2692, 5735, 5757, 6801, 6802
farm woodlands 7349
felling 5651
fertilizers 5614, 6442
forest types 1422, 2858, 6674, 7055, 7387
fruit 3823
fungi associated with 748
genetics/breeding 349, 2257, 3399
ground cover 5776
growth regulators, effect of 4438
hedgerow trees 1834
historical records 1887
hybrids 6416
hydrology 6079, 6821
increment and yield 653, 2147, 2658, 2697, 3307, 3960, 5735, 6622
injury by
dust 6873
gases and fumes 666, 1516, 6873
grazing 567
pruning 4876
sunscorch 2692
insect pests 793
Dipt. 6028
Lep. 803, 3616
interplanting in, broadleaved species 3268
irrigation 3880, 6846
leaf
morphology 2155
shedding 4764
litter/humus 2713, 5885
logs, assortments 2653
management 1887, 5626, 5757
measurement tables 2651, 2697, 3295, 4614, 5728, 6696
measurement, tree and stand 213, 3960
mixtures 564, 4117, 5189, 5728, 6873
morphology 3399
mycorrhiza 753, 754, 4854
nursery management 1382, 4486, 5972
nutrition 754, 5888, 6094
palaeoecology 4357, 5870
phenology 2147, 4764, 6890

Quercus robur *contd.*
plantations in
Denmark 2629
Germany, West 3247
Netherlands 6622
USSR, Russian region, south-eastern 3679, 5054
USSR, Ukraine, Crimea and Moldavia 4517
plantations on
clay sites 1892
dry sites 6529
erodible sites 5054, 6442
mining wastelands 7326
peatland 4517
sand dunes 6094
watersides 5041, 6094
wet lands 1892
planting methods 1395, 1892
propagation by cuttings 4438
protection forest 4423
provenance studies 3465, 6370, 6389
pruning, natural 6622
regeneration, artificial 1395
regeneration, natural 123, 567, 1877, 3862
roots
growth 4524, 4768
systems, distribution 6846
rootstock for grafts 6416
seed 3862
chemistry 3823
collection 3271
edible 3823
fodder 586
seed orchards 4423
shelterbelts 5464, 6846
silvicultural characters 3399
silvicultural systems 4555, 5626
silviculture 564, 1429, 2629, 3247, 6801, 6802
site preparation 4524, 5054, 6529
soil 5776, 6823
effect on 2713, 6824
soil requirements 5888, 6821
sowing, direct 1892, 6529
spacing 1395
stand density 4768
stand development 4583
stand quality 6674
stand structure 6232
tending, general 5728
transpiration 4016
underplanted with, broadleaved species 5757, 6623, 6624
water relations 653, 4016, 4697, 6094
weed control 576, 4486, 6554, 6559
weedkillers, effect of 6559
wildlife 2378, 7278
wood
identification 5870
variation with growth factors 213, 6890
Q. rotundifolia 691, 2718, 2860, 5771
Q. rubra
biomass production 2048, 6736
calorific value 269
chemical constituents 4714
control, chemical 3252
coppice 5134
diseases and disorders
canker, bark diseases 2877
decay 7156, 7158
foliage and shoot 397, 4192
root 7156
fertilizers 7, 555
foliage, chemistry 664
fuel plantations 5134
general information 3265
genetics/breeding 302
growth regulators, effect of 1042
increment and yield 1048, 1462, 2658, 3850
injuries, general 5797
injury by
frost 5797
gases and fumes 4712, 4714
insect pests 1883
Col. 2964, 4981, 6019
Lep. 856, 2944, 3605, 5384, 7212
light relations 3850
measurement tables 4570

Quercus rubra *contd.*
measurement, tree and stand 4570, 6677, 6685
mixtures 1048, 3865
mycorrhiza 7133, 7137
nursery management 3850, 4486
nutrition 2109, 4712
plantations in
Czechoslovakia 6372
USA, North Carolina 6522
USSR 5588
USSR, European region 3811
plantations on, mining wastelands 3681
planting stock 135
pollards 2620
provenance studies 1345
regeneration, artificial 1028, 1029, 6522
roots, growth 135
seed
fodder 586
germination 3824
pests and diseases 5027
silviculture 1048, 1429
site quality 1462, 2663, 6728
soil requirements 555
sowing, direct 3681
stand development 2243
stand structure 2243
tending, general 1837
translocation 2109
tree surgery 3703
variation 1345, 5935, 6677
water relations 633
weed control 4486
Q. saii 4696
Q. salicina 6483
Q. semecarpifolia 6828
Q. serrata 3359, 6966
Q. shumardii 193, 1345, 4688
Q. stellata 181, 490, 3006, 4258
Q. stellata margaretta 6527
Q. suber 1810, 2948, 6979, 7046
Q. toza (see *Quercus pyrenaica*)
Q. trojana 4214, 4215, 4242, 5912
Q. × turneri pseudoturneri 6416
Q. undulata 2556
Q. velutina
diseases and disorders
decay 7158
foliage and shoot 397
fertilizers 2873
hybrids 2868
increment and yield 2264, 2265
insect pests, Col. 837, 2964, 6019
mycorrhiza 2264, 2265, 2873
nursery management 2264, 2873
planting stock 2265
provenance studies 1345
regeneration, artificial 119
variation 1345
water relations 633
Q. virgiliana 2155
Q. virginiana 773, 1111, 1136, 5353, 6518
Q. virginiana fusiformes 3003
Q. wizlizeni 3885
Racemobambos setifera 5822
***Ragala* spp.** 5286
Rangifer tarandus 3663, 4284
Rapanea melanophloeos 2518
Raphicerus melanotis 6058
***Raputia* spp.** 1572
Ravenelia tandonii 5367
Resinicum bicolor 690
***Resseliella* spp.** 6028
R. piceae 2977
Reticulitermes chinensis 7207
R. speratus 7207
R. tibialis 3063
***Rhabdophaga* spp.** 7249
Rhagoletis batava obscuriosa 7248
Rhanterium epapposum 3009
Rhapis excelsa 5292
Rheedia edulis 7032
R. gardneriana 90
Rhinoceros unicornis 1853
***Rhizobium* spp.** 6837
***Rhizoctonia* spp.** 2880, 7150
R. solani 1618, 2272, 5342
***Rhizophora* spp.** 430, 1860
R. andelaria 6158
R. apiculata 2144
R. mangle 222, 3443
R. mucronata 430, 2146

Rhizophoraceae 2774, 2872
Rhizopogon luteolus 377, 2875, 7140
R. roseolus 751
R. rubescens 2875
R. vinicolor 5339
***Rhododendron* spp.** 2957
R. arboreum 4104
R. smirnovii 2957
Rhopalicus tutela 4979
Rhopalocarpaceae 7018
Rhus copallina 3437
R. tribolata 7327
R. typhina 34, 6376, 6950
***Rhyacionia* spp.** 7216
R. buoliana 2315
attractants, dodecenyl acetate 5419
damage by 1210
R. bushnelli 4960
R. dativa 5398
R. duplana 5398
R. frustrana 412, 1221, 3595, 5522
R. insulariana 5398
R. pinicolana 5398
R. rigidana 3595
Rhyssa lineolata 1232
R. persuasoria 1232
***Ribes* spp.** 1647, 2905
R. aureum 2118
R. hydsonianum petiolare 4170
Ricinus communis 1277
Rigidoporus lignosus 4158
***Rinorea* spp.** 1260
Robinia pseudoacacia
arboriculture 1840
biomass production 3761, 5522
chemical constituents 4714
coppice 5134
diseases and disorders, canker, bark diseases 2299
economics 5735
fertilizers 6442, 6451
foliage, chemistry 5796
fuel plantations 3761, 5134
general information 3264
genetics/breeding 7114
increment and yield 5735
injury by, gases and fumes 4714, 5796
insect pests
Col. 7231
Lep. 406
irrigation 6846
measurement tables 5734
mixtures 3865
nurse to, broadleaved species 7320
nursery management 194
plantations in
USSR, Russian region, central 5460
USSR, Russian region, south-eastern 3679
USSR, Transcaucasia 4413
USSR, Ukraine, Crimea and Moldavia 5073
plantations on
erodible sites 1897, 5056, 5460, 6442
mining wastelands 903, 908, 3761, 7316, 7320
polluted sites 4308
sand dunes 5073
protection forest 4423
roots, systems, distribution 6846
seed, seed orchards 4423
shelterbelts 1897, 5056, 5463, 6846
site preparation 4519
soil, effect on 908
spacing 5463
tending, general 1837
tissue culture 7114
water relations 5463
wood, anatomy 6967
Rollinia emarginata 4776
R. exalbida 4776
Rosa woodsii 5065
Rosaceae 5290
Rosellinia desmazieresii 5953
Rosmarinus officinalis 4033
Roystonea oleracea 209
Rubiaceae 4128
***Rubus* spp.** 6666
R. allegheniensis 4586
R. chamaemorus 5865, 6045
***R. fruticosus* aggr.** 1409
R. idaeus 6552
R. idaeus aculeatissimus 2186, 2187
Rupicapra rupicapra 5443, 6060, 7277
***Russula* spp.** 5943
Rutaceae 5290
Sabal palmetto 5249
Sacchiphantes abietis 1681
Saguinus midas 1854
***Salix* spp.**
arthropods associated with 6666
bark, uses 5676
biomass production 75, 80, 6629
browse 3471, 7118
chemical constituents 6858, 6982
control, chemical 3252
coppice 75, 76, 587, 1887
diseases and disorders, canker, bark diseases 2299
economics 6629
fertilizers 3216
forest types 4132
fuel plantations 76, 341, 980, 1864, 3802
general information 3265, 7031
genetics/breeding 341, 3471
historical records 1887
honeydew 590
honey/nectar 590, 6666
injury by
gases and fumes 6187
mammals 3022, 6621
insect pests 6621
Dipt. 7249
Lep. 406, 5401
irrigation 3880
management 80
plantations on
erodible sites 1788, 3022
mining wastelands 2396
peatland 980
watersides 5041
pollen 6982
propagation by cuttings 6415
protection forest 2393
rotation 6629
silviculture 6629
weedkillers, effect of 1994
S. acuminata 5676
S. alaxensis 4132
S. alaxensis longistylis 1933
S. alba 1405, 2310, 2925, 3265, 3795, 4934, 5041, 6415, 7387
S. alba* × *S. matsudana 995, 3226
***S.* 'Aquatica Gigantea'** 75, 6244
S. aurita 1988
S. babylonica 394, 1234, 4437, 4923
S. bebbiana 1933
S. caprea 418, 419, 1988, 4309, 6982, 7271
S. chaenomeloides 4925
S. daphnoides 6982
S. dasyclados 75
S. discolor 3059
S. exigua 1460
S. fragilis 1234, 1725
S.* × *holosericea 6415
S. lanata richardsonii 4132
S. matsudana 25
S. matsudana* × *S. alba 80
***S.* 'NZ 1002'** 80
S. pulchra 4132
S. purpurea 80
***S. purpurea* 'Irette'** 3226
***S. purpurea* 'Vardimski'** 4068
S. repens 5953
S. rotundifolia 4850
S. scouleriana 1933
S. smithiana 5676
S. stipularis 5676
S. tetrasperma 4104, 6155, 7190
S. viminalis 75, 80, 6415, 6982
Salmo apache 5445
S. gairdneri 889
S. gilae 5445
S. trutta 889
Salmonidae 3030, 6063, 6064, 6065, 6066, 6067, 6068
Salvelinus fontinalis 889, 2360, 2361
Sambucus cerulea 34
S. nigra 1666, 2150, 6427
S. racemosa 291, 1666
Sandwithiodoxa egregia 3401
Sannina uroceriformis 5992
Santalum album 396, 1664, 2173, 3477, 4149, 4151, 4152, 4193, 4935, 5341, 6146, 6186, 6398, 6430, 6509, 7193
Saperda calcarata 2294
Saperda *contd.*
S. carcharias 6043
Sapindus mukorossi 1056, 1932
Sapium baccatum 7014
Sapotaceae 3400, 3401, 3402, 3403, 3404, 3405, 4128, 5281, 5282, 5283, 5284, 5285, 5286, 5287, 5288
***Sapranthus* spp.** 4778
Sarcandra glabra 5294
S. spicatus 5294
Sarcaulus brasiliensis 5288
S. wurdackii 5288
Sarcobatus vermiculatus 5599
Sarcocephalus (see *Nauclea*)
Sarcolaenaceae 7018
Sarea resinae 761
Sarotherodon mossambicus 1859
***Sasa* spp.** 7052
S. amagiensis 5762
S. kurilensis 2656, 2783
S. niponica 2656
S. palmata 2655, 5820, 6501
S. paniculata 2656
S. pigmaea 1170
Sassafras albidum 391
S. tzumu 6633
***Schaferodendron* spp.** 5281
***Schefflera* spp.** 5825
Schima khasiana 2544
S. wallichii 2544
***Schinopsis* spp.** 2175
Schinus molle 281
Schizolachnus pineti 1678, 3590, 5391
S. piniradiatae 5988
Schizophyllum commune 2271
Schizostachyum zollingeri 7009
Schleichera oleosa 588
Sciadopitys verticillata 4589
Scirrhia acicola 4054, 4178, 5971
S. pini 1660, 2916, 2920, 4179, 5370, 5973
Sciurus aberti 3023
S. carolinensis 5027, 6062
***Scleroderma* spp.** 2875
S. geaster 2262
***Sclerodermus* spp.** 4234
S. turkmenicus 2352, 5003
Scleroderris lagerbergii (see *Gremmeniella abietina*)
Sclerolobium paraense 1916
Sclerophoma deliblatica 4181
S. pithyophila 4188, 4189
Scolytidae 1719, 1720, 2346, 4947, 4948, 6021, 6189, 6190
***Scolytus* spp.** 5387
S. intricatus 1883
S. multistriatus 422, 828, 845, 863, 2340, 2892, 2958, 2963, 3624, 4998, 7146
S. pygmaeus 828
S. scolytus 828, 2892
S. ventralis 2883
Scopinella gallicola 2906
Scurrula cordifolia 4198
Scymnus nigrinus 7210
Scyphiphora hydrophyllacea 2146
Scytalidium uredinicola 1651
Scytinostroma galactinum 3501
***Securidaca* spp.** 2175
Securinega virosa 3420
***Seemannaralia* spp.** 5825
***Segueria* spp.** 2175
Seiridium cardinale 162, 163, 164, 167, 168, 169, 170, 171, 176, 2910, 3497, 4936, 4937, 7174
Selenarctos thibetanus japonicus 6192
Semanotus semenovi 2314
Semasia diniana (see *Zeiraphera diniana*)
Septoria hippocastani 4872
Sequoia gigantea (see *Sequoiadendron giganteum*)
S. sempervirens 142, 1607, 1954, 3096, 3860, 5259, 5484, 6661
Sequoiadendron giganteum 2232, 3395
Serenoa repens 673, 6866
Serropalpus barbatus 1720
Sesiidae 807, 5992
Setoptus jonesi 3638
Sextius virescens 798
Seymeria cassioides 3553
Shepherdia canadensis 1933
Shiia (see *Castanopsis*)
***Shorea* spp.** 1057, 1355, 1852, 2169, 2271, 3816, 4127, 5220
***S.* (*Anthoshorea*)** 3816

Shorea contd.
S. (*Eushorea*) 3816
S. (*Muticae*) 2168, 2169, 4098
S. (*Pachycarpae*) 2169
S. (*Richetioides*) 2169
S. acuminata 2168, 4079, 4098
S. agsaboensis 4111
S. assamica 2271, 4787, 4788
S. bracteolata 3826
S. chrysophylla 4070
S. curtisii 1355
S. dasyphylla 1355, 2168
S. laevis 4128
S. lepidota 2168, 4098
S. leprosula 1355, 2168, 3826, 3827, 4061, 4070, 4079, 4098, 4787, 6994
S. macroptera 2168, 4061, 4098, 4787, 6994
S. materialis 3816
S. maxwelliana 4079
S. mecistopteryx 4061
S. obtusa 4126
S. ovalis 1355, 2169, 4787, 5914
S. palembanica 3827
S. parvifolia 2168, 3817, 4098
S. pauciflora 6994
S. pinanga 4070
S. platyclados 3816
S. robusta 762, 1069, 1075, 1500, 1777, 1990, 3589, 4568, 4867, 5381, 5777, 6826
S. roxburghii 3816
S. seminis 3827
S. siamensis 4126
S. splendida 2169
S. stenoptera 2169, 3827
S. sumatrana 3816
S. talura 1355, 3816, 4787
S. uliginosa 4061
Sideroxylon gardnerianum 90
Silvilagus aquatilis 446
S. floridanus 446
Simaroubaceae 5290, 6947
Simmondsia chinensis 10, 28, 525, 3275, 5677
Sindora spp. 5220
Sinocalamus latiflorus 1447, 5393
Sirex cyaneus 851
S. juvencus 851, 852
S. noctilio 400, 851, 1210, 1232, 1233, 2971, 4542, 4947, 6027
review 3635
Siricidae 1720
Sirococcus strobilinus 1627
Skimmia laureola 4563
Sonneratia acida 5781
S. alba 1595
S. apetala 4488
Sophora chrysophylla 1350, 1974, 2563, 3819
S. japonica 257, 1840
Sorbus spp. 2909, 5765, 7385
S. americana 5999
S. aria 2393, 3350
S. aucuparia 567, 1130, 2393, 3660, 3865, 7271
S. decora 5765
S. domestica 5192
S. sibirica 5765
S. torminalis 3350, 3901, 3902, 6557
Sparassis crispa 380, 1193, 5346
Sphaceloma coryli 4919
Sphaeralcea incana 5599
Sphaerotheca verbenae 5368
Spiroplasma spp. 6186
Spirostachys africana 2518
Spodoptera eridania 5999
Spondias dulcis 90
S. lutea 90
S. mombin 7032
Spondylis buprestoides 874
Spongipellis litschaueri 3504
Stachycarpus spp. 711
Staphylococcus spp. 5850
Stathmorrhopa aphotista 818, 821
Stemonoporus spp. 2174, 4127
Stenanona spp. 4778
Stenodontes spinibarbis 4233
Stenolechia bathrodyas 409
Stereum frustulatum 7158
S. gausapatum 4876, 7158
S. rugosum 2891
S. sanguinolentum 150, 769, 3501, 3593, 5346
Stethaspis spp. 1229
Sthenopis quadriguttatus 2945
Stilpnotia salicis (see *Leucoma salicis*)
Stipa tenacissima 5070
Strasburgeria spp. 2770
Streptomyces spp. 254, 645, 4196, 7160
Sturmia inconspicuella 2357
Styrax benzoin 7015
Suillus spp. 2874
S. bovinus 751
S. granulatus 210, 749, 2875, 7140
S. grevillei 2272, 7150
S. luteus 2875
S. piperatus 3487
Sus scrofa 3655, 3661, 5028, 7278, 7288
Swartzia oblata 289
S. pinheiroana 289
Swietenia spp. 4958
S. macrophylla 765, 2351, 2528, 3224, 3958, 4234, 4884
S. mahagoni 5328, 5479
Swietenioideae 2796
Sylvicarpa grimmia 6058
Symmerista canicosta 2954
Symphonia globulifera 5148, 7032
Symphoricarpos spp. 7327
S. orbiculatus 3226
Symplocus theophrastaefolia 3538
Synanthedon scitula 3619
Syringa vulgaris 6998
Syrphidae 5391, 5422
Syzygium cordatum 2518
S. cuminii 1236
S. malaccensis 2771
Tabebuia ipe 90
T. serratifolia 90
Tachardiaephagus tachardiae 588
Tachinidae 1218
Taiwania cryptomerioides 6466, 6965
Tamarindus indica 1637, 2938
Tamarix spp. 1713
T. articulata 6042
T. chinensis 3030
Taphrina caerulescens 397
Taphrorychus bicolor 3267
Tarrietia (see *Heritiera*)
Taxodium distichum 555, 931, 981, 3831, 4124, 4525, 4995, 5249, 5399, 5696, 6886
T. distichum nutans 6421
Taxus spp. 18, 2957, 6568
T. baccata 1132, 1133, 1174, 2148
T. canadensis 4246
T. cuspidata 4246, 5262
T. media 118
T. media 'Hicksii' 17
Tectona grandis 4921
biomass production 1458, 2645, 2716
diseases and disorders
foliage and shoot 3536
root 4158
fertilizers 5478
forest types 4819, 5324, 5325, 6822
fruit 2540
genetics/breeding 1184
ground cover 2645
hydrology 1272
increment and yield 6712
injury by, nematodes 1236
insect pests, Lep. 2357
interplanting with, agricultural crops 2406, 3066, 5478
litter/humus 1500
management 6630
measurement, tree and stand 2645
plantations in
Bangladesh 2482
Indonesia 5474
Trinidad and Tobago 1898
Venezuela 2716
plantations on, erodible sites 2482
pollination 6181
regeneration, natural 1969
seed, germination 2540
site quality 6712
soil, effect on 6822
soil requirements 251, 2716
transpiration 1272
variation 4145
T. hamiltoniana 3451, 7071
T. philippinensis 3451, 7071
Teinostachyum dulloa 2481
Telenomus alsophilae 4946
T. aradi 4951
Temnochila chlorodia 428
Terminalia spp. 90
T. accumulata 90
T. alata 1087, 7017
T. alata nepalensis 7017
T. arjuna 788, 1509, 6971
T. catappa 5376
T. crenulata 5831, 7017
T. glabrescens 90
T. glaucescens 2236
T. ivorensis 415, 1201, 1916
T. paniculata 2042, 3282
T. sericea 2518
T. tomentosa 1087, 7017
Tetraberlinia bifoliolata 6893
Tetradymia spp. 2176
Tetragastris panamensis 4797
Tetralopha robustella 3320
Tetrao urogallus 5032
Tetraonidae 5036
Tetrastes bonasia 1249, 5032
Tetrastichus purpureus 588
T. servadeii 3598
Tetropium gracilicorn 400
Tetyra bipunctata 3643, 3653, 4205
Thanasimus dubius 3574
T. femoralis 839
T. formicarius 839
Thaumatographa eremnotorna 805
Thaumetopoea pityocampa 873, 1210, 1745, 2986, 2989, 3598, 5428, 6038
T. processionea 1745
Thecodiplosis japonensis 4261, 4992, 4993, 4994, 5414, 5415, 5421, 7247
Thelephora terrestris 375, 1189, 4846, 5971, 7136, 7325
Thelohania disparis 405
Thespesia populnea 3550
Thomasiniana ingrica 4204
Thomomys spp. 4288
Thrips spp. 4098
T. hawaiiensis 4098
Thuja spp. 166, 2894, 7174
T. occidentalis 118, 174, 650, 795, 2242, 3953, 4157, 6677, 6693, 6720
T. orientalis 3497, 6902
T. plicata 1089, 1535, 1617, 1708, 1710, 1711, 1915, 2148, 3317, 3353, 4578, 5096, 5267, 5588, 5745, 7235
Thujopsis dolabrata hondai 6731
Thyridopteryx ephemeraeformis 4268
Thyronectria austro-americana 5361
Thysanoptera 1852, 4098
Tibouchina granulosa 90
Tilia spp. 590, 708, 709, 2759, 2997, 4208, 4360, 4817, 5041, 5735, 6244, 6873
T. americana 135, 302, 1028, 1029, 1462, 1837, 2243, 2663, 3865, 4019, 6494, 6505, 6677, 6693, 6728
T. amurensis 708, 709
T. argentea (see *Tilia tomentosa*)
T. cordata
arboriculture 924
chemical constituents 5835
economics 6802
fertilizers 924
general information 2759
ground cover 5776
hedgerow trees 905
injury by
recreational activities 5076
salt 2118
interplanting in, broadleaved species 3268
leaf, anatomy 6998
litter/humus 5885
mixtures 5192
nutrition 6843
ornamental value 905, 7385
phloem 6998
physiology 5835
plantations on
dry sites 3350
mining wastelands 7326
propagation by cuttings 6417
provenance studies 3465
roots, systems, distribution 5076
sap 3642
seed, seed orchards 5939
shelterbelts 905
silviculture 6802
soil 5776
flora 6843

Tilia cordata *contd.*
translocation 6998
underplanting in, broadleaved species 6623
T. mandshurica 708, 709
T. platyphyllos 1475, 2150, 3217, 4016, 5192, 6624
T. taquetii 708, 709
T. tomentosa 4550, 5796
Tiliaceae 5290
***Tipuana* spp.** 2175
Tomicus minor 1718, 4247, 7201
T. piniperda 1210, 1231, 1718, 2315, 4247, 7201
Toona ciliata 462
T. serrata 5328
Tortrix viridana 803, 1741, 1747, 3639, 5400
***Torymus* spp.** 1723
T. beneficus 853
Trachykele blondeli 7235
Trachymela sloanei 1733
Tragelaphus scriptus 445
Trema micrantha 90, 7032
Trewia nudiflora 2647
Trichilia emetica 2518
T. roka 6634
***Trichoderma* spp.** 2279, 6844, 7151, 7157
T. harzianum 254, 2281, 7150
T. viride 3532, 6116

***Trichodorus* spp.** 859
Trichogramma dendrolimi 5426
Tricholoma matsutake 376, 7126, 7127
T. robustum 5333
T. zelleri 5333
Trichophora melas 3578
Trichosurus vulpecula 3022
Tridesmodes ramiculata 415
***Trigonobalanus* spp.** 3433
Triphragmiopsis laricinum 1661
Triplochiton scleroxylon 1882, 3825, 6008
Trisetacus campnodus 2353
T. ehmanni 3638
Trypodendron lineatum (see *Xyloterus lineatus*)
Tsuga canadensis
biomass production 2048, 3953
browse 885
diseases and disorders
decay 7156
root 7156
forest types 5075
measurement, tree and stand 4567, 6677
mycorrhiza 35, 1625, 5620
nursery management 5620
regeneration, natural 885
successional role 3436
variation 6677
vegetation types 5323
wildlife 887
T. diversifolia 1202
T. heterophylla 3117
biomass production 73, 3119, 3317
cone
collection 3121
growth and development 3121
handling, processing 3121
production 2782
conferences, symposia 3113
crown
dimensions 4578
weight 5218
diseases and disorders 3125
decay 4196, 4885, 4886
root 1205, 4885, 4886
ecology 3114, 5327
economics 3145
fertilizers 112, 3142, 3143, 3220, 3840, 5160
fire, danger 1535, 5267, 5806
flowering 2782, 5861
foliage, weight 4578
forest types 1089, 2233, 5327
fuel plantations 73
genetics/breeding 3128
growth regulators, effect of 2782, 5861
increment and yield 2005, 3137, 3138, 3139, 3840, 4613
injury by
birds 3127
frost 3124
mammals 3127

Tsuga heterophylla *contd.*
injury by *contd.*
mistletoe 3125
insect pests 3126
Lep. 2944
liberation fellings 3144
litter/humus 3353, 6829
logging waste 2679, 5745
management 1089, 3113, 3145, 3146, 3698, 3963
measurement tables 3136, 3138, 3139, 4613
mixtures 564
mycorrhiza 3482, 5943, 7141
nursery management 1954, 3122, 3123, 3482
nutrition 3118, 3119
physiology 133
planting stock 133, 1398, 3122, 3123, 3130, 3132, 3133
pollen 2782
propagation by cuttings 3128, 3130, 4838
provenance studies 1921
regeneration, artificial 3132, 3133
regeneration, natural 3129
reproductive behaviour 6408
research 3146
roots, physiology 3120
seed
germination 3121
physiology 3121
production 2782
seedlings 3122, 3123
silviculture 564, 3113, 3115, 3963
site preparation 3131
site quality 3116
site requirements 3116, 3131
soil, effect on 6832
spacing 3135
stem, form 2019
successional role 2233
thinning 1535, 3134, 3140, 3141
tissue culture 3128
variation 4838
water relations 5861
weed control 1954
weedkillers, effect of 142
T. mertensiana 1020, 2927, 3091
T. sieboldii 4498, 5913
***Tuber* spp.** 5945
T. macrosporum 4854
Tubercularia ulmea 392, 2302
Tuberculina maxima 2903, 3518
Tyromyces stipticus 5346
Uapaca togoensis 2236
Ulex europaeus 577
Ulmaceae 5290
***Ulmus* spp.** 5041
arboriculture 1018
dendroclimatology 6129
diseases and disorders 422
book 3478
wilts, dieback 775, 776, 777, 828, 1644, 2287, 2340, 3507, 4899, 4900, 5387, 5959, 5965
general information 3265
genetics/breeding 2861, 5965, 7116
increment and yield 189
insect pests
Col. 422, 828, 845, 2340, 2367, 2988, 5387
Hem. 5387
Lep. 5387
plantations in, USSR, Russian region, south-eastern 3679
planting stock 1018
taxonomy 3423, 7116
wood, decay 5959
U. alata 1154
U. americana
bark, anatomy 1154
diseases and disorders
decay 3548
wilts, dieback 836, 1204, 1549, 1642, 1643, 2288, 2688, 2897, 3508, 3552, 4166, 4167, 4897, 5981, 5982, 7146
genetics/breeding 7116
increment and yield 1462
insect pests
Col. 836, 3623
Hym. 3633
measurement, tree and stand 3702, 6677
ornamental value 3552

Ulmus americana *contd.*
plantations in, urban areas 3702
pruning 3623
site quality 1462, 2663, 6728
taxonomy 7116
tending, general 1837
tree surgery 3703
variation 6677
wood, anatomy, abnormal 1549, 4166, 4167
***U.* 'Belgica'** 2287
U. campestris 3633
U. carpinifolia 924, 2287, 2858, 7116, 7387
U. davidiana 929
U. fulva (see *Ulmus rubra*)
U. glabra 442, 2287, 2892, 3529, 5076, 5939, 6107, 7116, 7348
U. glaucescens 929
U.* × *hollandica 2287
U. japonica 929, 7116
U. laciniata 929, 7116
U. laevis 2852, 3633, 7116, 7170
U. macrocarpa 929
U. minor 7348
U. parvifolia 928, 1833, 1840, 2963
U. procera 2287, 2892, 2963, 4998, 7116
U. pumila 928, 2302, 2963, 3509, 4066, 7116, 7121, 7348
U. pumila arborea 2106, 2165, 3810, 4303, 4519, 4697, 5073, 5463, 6088, 6809
U. rubra 7116
U. thomasii 1643, 7116
***U.* 'Vegeta'** 2287
U. villosa 1642
U. wallichiana 7071
U. wilsoniana 7116
Ultracoelostoma assimile 5682
Uncinula flexosa 4872
U. tectonae 3536
Uredinopsis hashiokai 7184
U. longimucronata 7184
U. pteridis 7184
Uresiphita polygonalis maorialis 1220
Urocerus augur sah 2314
U. gigas 851
Uromyces koae 1655
Ursus arctos 3013
Vaccinium macrocarpum 1887
V. membranaceum 3910
V. myrtilloides 4586
V. myrtillus 3911, 5334, 7067
V. oxycoccus 3911
V. scoparium 1533
V. uliginosum 3911
V. uliginosum alpinum 1933
V. vitis-idaea 1406, 3911
***Valsa* spp.** 2302
V. kunzei 779, 3527
***Vatairea* spp.** 2175
***Vataireopsis* spp.** 2175
Vateria indica 6673
Vatica odorata 4787, 4788
V. pauciflora 3827, 4070
V. umbonata 3816
V. wallichii 1566
Venturia macularis 5950
V. populina 393
Vepris glendulosa 7071
***Verticicladiella* spp.** 7169
V. alacris 1638
V. procera 3512, 4915, 5967, 5968
V. serpens 1638
V. wageneriі 2349
Verticillium albo-atrum 4901
V. dahliae 2292, 2895, 7152
Vespinae 436
Viburnum edule 1933
Vireo alivaceous 2374
V. flavoviridis 3419
***Viscum* spp.** 5183
V. album 4197
V. loranthi 4198
Vismia falcata 1160
V. guianensis 1161
V. lindeniana 1160
V. macrophylla 1160
Vitex altissima 6702
V. keniensis 7157
V. pinnata 7014
Vochysia haenkiana 1554
Volutella buxi 764
Wallabia bicolor 1766

Weinmannia racemosa 607
Wercklea spp. 4110
Widdringtonia cedarbergensis 625
Winteraceae 3433
Wrightia tinctoria 2307
Xanthisthisa tarsispina 1694
Xanthocephalum spp. 2176
Xanthochelus faunus 1228
Xanthogaleruca luteola 2988, 5387
Xanthomonas campestris 3550, 5376
X. populi 362, 3469, 4416, 7144
Xanthophyllum spp. 6944
Xanthorrhoea preissii 934
Xanthoteras politum 4258
Xerocomus porosporus 3487
Xerospermum intermedium 1852, 7013
Xyleborini 2343
Xyleborus saxeseni 1733
X. sayi 825
Xylopia xulpioides 90
Xyloterus domesticum 4260
X. lineatus 400, 426, 1226, 4237, 7227, 7228
Yucca carnerosana 3275, 4564
Zeiraphera spp. 2950
Z. diniana 410, 2323, 4212, 4213, 4216
Z. improbana 2316, 7218
Z. rufimitrana 1211
Z. truncata 1215
Zelkova serrata 927, 1925, 5903, 6187
Zelleria haimbachi 2114
Ziziphus spp. 2192
Z. jujuba inermis 7191
Z. mauritiana 5595
Z. nummularia 7314
Zoophthora canadensis 5988
Zygophyllaceae 6947

SUBJECT INDEX

Abscission 5008, 5009
Acaricides 1759, 2359
Accidents and their prevention 925, 977, 1309, 1335, 1907, 2505, 3170, 3186, 3792, 4342, 5485, 5567, 5568, 5651, 6328, 6331, 6478
  conferences, symposia 3185
Accountancy 966, 6311, 6784, 6791
Acoustic properties of trees 6902
Advance growth (*see* Regeneration, natural, advance growth)
Advisory services (*see* Extension services)
Aerial photography (*see* Remote sensing; Surveys, aerial)
Afforestation 444, 2404, 4325, 4413 (*see also* Plantations, general; Planting)
  agricultural land 659, 1814, 2565, 3683, 5539, 5666, 5667
  alkaline sites 2401, 2599, 5633
  arid regions 10, 1277, 1283, 1289, 1789, 2165, 2492, 3061, 3810, 4487, 5065, 6088, 6109, 6276, 7314
  bibliography 5064
  book 2397, 3061
  burnt sites 1892, 2585
  calcareous sites 6359
  catchment areas 1813, 4290
  coastal 2484, 2766
  conferences, symposia 3228
  dry sites 3350
  eroded sites 1334, 5054, 5057, 5462, 5477, 5480, 6086, 6451, 6539, 6819, 7305, 7308, 7309
  grassland 41, 1814, 5644
  marginal, waste, degraded land 81, 1881, 2565, 3060, 3680, 4019, 4310, 5476, 5580, 6047, 6819, 7324, 7325
  mining wastelands 456, 903, 908, 980, 1621, 2396, 2398, 2402, 2724, 3680, 3681, 4307, 4310, 5064, 5465, 5468, 5599, 6095, 6096, 6837, 6852, 6853, 7313, 7315, 7316, 7319, 7320, 7322, 7323, 7326, 7327
  mountains 1976, 3044, 3051, 3052
  peatland 902, 980, 1403, 2602, 3248, 3434, 4517, 6506
  polluted sites 907, 1130, 4308
  saline sites 1813, 1887, 2401, 5243
  sand dunes 1275, 1510, 1887, 2726, 3060, 6094
  sandy sites 5073, 5587, 7314
  steep slopes 6084
  steppe 291, 1976
  town refuse tips and ûrban wasteland 1792
  wet lands 296, 4525, 6540
  work studies 4405
Afghanistan, *Picea smithiana* 2822
Africa
  Acacia spp. 2805
  Acokanthera spp. 7020
  education and training 1905, 1906
  energy resources 5126
  flora/check lists 2791
  fuel resources 5104, 5111
  history, forest(ry) 2805
  international aid and collaboration 5104
  land use 2490
  management, forest 2414, 2490
  mangroves 5891
  remote sensing 5235
  succession 3428
  vegetation 5235
  vegetation types 3428
Africa, Central, forests and forestry 6285
Africa, East, fishing and fishery management 1859
Africa, North
  fuel resources 1909
  Pistacia atlantica 2143
Africa, Sahelian zone
  browse 1285
  conferences, symposia 1282
  energy resources 6349
  fuel plantations 3794, 6352
  fuel resources 3794, 5575
  fuelwood 6349
  grazing and pasture 1285
  research 1291
Africa, southern
  afforestation 1289
  history, forest(ry) 512, 513
  plantations 513
Africa, tropical
  charcoal 5103
  forests and forestry 2488, 5537
  fuel resources 5103
  resources, forest 2488
Africa, West
  agroforestry 1286, 2097
  soil types 2097
  Tridesmodes ramiculata 415
Age and ageing, physiological 691, 741
Age of trees 220, 221, 223, 224, 225, 226, 230, 391, 934, 3945, 4081
Agriculture/forestry relations, general 41, 478, 479, 480, 481, 482, 483, 484, 1799, 1800, 1802, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1817, 1820, 1855, 1862, 2390, 2394, 3688, 3758, 4319, 4322, 4323, 4325, 5066, 5665, 5810, 6098, 6486, 6662, 6848, 7314 (*see also* Economics, forestry, vs. agriculture)
Agrisilviculture (*see* Agroforestry)
Agroforestry 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 909, 936, 1280, 1286, 1290, 1313, 1340, 1803, 1820, 1856, 1862, 1897, 2097, 2404, 2406, 2411, 2414, 2415, 2418, 2638, 3066, 3086, 3764, 4333, 4335, 5469, 5471, 5472, 5473, 5474, 5476, 5478, 5479, 5480, 5481, 5482, 6097, 6872, 7331, 7338, 7346 (*see also* Regeneration, artificial, combined with agriculture; Shifting cultivation)
  bibliography 1279, 1292, 7344
  conferences, symposia 5483
Air layering (*see* Propagation, vegetative, air-layering)
Air pollution (*see* Pollution, air)
Aircraft, use in forestry 4044, 5810, 6638
Algae 4010, 5381 (*see also* Soil biology, algae)
Algeria
  Cupressus dupreziana 155
  management, forest 2418
  Pistacia atlantica 685
  yield studies 2667
Allelopathy 291, 1170, 1171, 2242, 3437, 4117, 4827, 5887
Alps, European
  Abies alba 6178
  dendrochronology 3110, 7391
  Picea abies 2865
  provenance studies 2865
Altitude 4108, 7113
  effect on increment and yield 249, 2087, 6386, 6508
  effect on local climate 2701
Ambrosia beetles (*see* Borers, wood)
Amelioration of forest sites 1365, 3219, 4519, 4525, 5159, 5614, 5773, 6094
Amenity forests, parks 4303, 4351, 4352, 4415, 5073, 5077, 6112, 6121, 6246, 7372
Amenity value of forests 918, 1300, 1884, 4345, 6108, 6109, 7361, 7363, 7369, 7374 (*see also* Plantations, general, amenity aspects; Recreation, forest)
America, Central
  forests and forestry 6293
  fuel plantations 5113
  fuel resources 5113
  Khaya spp. 811
America, Latin
  agroforestry 458, 459
  diseases, tree 2624
  forest administration 2078
  management, forest 3304
  plantations 2624
  resources, forest 3167
  tropical forests and forestry 3167
America, North
  bibliography 807
  biological control 5423
  Coleophora laricella 3641
  ecology, forest 293
  forest site classification 232
  fungi 766
America, North *contd.*
  Lymantria dispar 5420
  maps, vegetation 2800
  parasites and saprophytes 1669
  Pinus spp. 6949
  plant protection 5420
  pollution, air 259
  Sesiidae 807
  succession 293
America, South
  Chrysobalanaceae 1580
  Khaya spp. 811
  Lecythidaceae 1577
  mangroves 3442, 3443
  maps, vegetation 295
  Paramachaerium spp. 1579
Anacardiaceae 5290
Anatomy, plant 154, 708, 2770, 3412, 4077, 4100, 5776 (*see also* plant parts concerned, e.g. Bark, Leaf)
  book 686
Andaman and Nicobar Islands
  fungi 5781
  mangroves 5781
Angle-count 2678, 2682, 5228, 5229, 5693, 5746, 6762
Angling (*see* Fishing and fishery management)
Animal damage 5984
Animal geography, book 4122
Annual rings (*see* Rings, growth)
Anti-transpirants 12, 118, 7001
Antibiotics in plants 379
Ants 813, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 2994, 4070, 4257, 4991, 6026, 7242, 7243, 7244
Apiculture 5475 (*see also* Bees)
Aquaculture 1771, 1858, 1859, 1860
  bibliography 7290
  equipment and methods 936
Arboreta 456, 2453, 6122, 6134, 6837
Arboricides 3652 (*see also* Weed trees and shrubs, control, chemical; Weedkillers)
Arboriculture 555, 924, 1018, 1170, 1171, 1188, 1308, 1310, 2448, 3108, 5487, 6134, 7381
  book 1835
  directories 4349
Argentina
  bibliography 961
  forests and forestry 961
  fuel resources 5128
Arid zones and deserts 87, 245, 525, 1265, 1282, 1283, 1289, 1295, 1789, 1845, 3061, 3090, 3277, 3357, 3810, 4624, 5232, 5315, 5577, 6276, 6283, 7333
  bibliography 879
  review 5907
Asia
  development, forestry 5556
  mangroves 5891
Asia, South-East
  agroforestry 461
  Dioryctria spp. 7216
  diseases, tree 2624
  land use 1853
  logging 1851
  logging damage 1435
  Metroxylon sagu 211
  minor forest products 211, 1057, 1851
  nature conservation and reserves 1853
  plantations 2624
  regeneration 1435
  Rhyacionia spp. 7216
  shifting cultivation 461
Asia, tropical
  environmental degradation 1857
  resources, forest 3165
  tropical forests and forestry 3165
Aspect and slope 249, 4005, 5352, 6815, 6860, 6861
  effect on increment and yield 2087
Assimilation 2778, 5834
Associations, societies 2428, 2501, 2502, 3158, 3169, 4386, 6255, 6257, 6325, 6952, 7386
Assortments and assortment tables 2653, 3308, 3932, 4644, 5189, 5703, 6694, 6695, 6696
  systems analysis and simulation 3319

Attractants, insect (*see* Insect pests of trees, attractants)
Australia
afforestation 4319, 4325, 4329, 4330
agroforestry 1799, 2418
Armillaria luteobubalina 2888
biological control 4947
birds 38
book 2182, 2750, 4122
conferences, symposia 6904
deforestation 4319, 4321, 4322, 4323, 4324
dendrochronology 1312
diseases, tree 36, 37, 38, 39, 40, 41, 784, 1640, 2890, 3542, 3544, 4902
drought 40
ecology 4122
ecology, forest 7053
economics, forestry 1480, 6788
environmental conservation 4319, 4320, 4323, 4325, 4326, 4327, 4329, 4330
Eucalyptus spp. 1823, 3213, 4006, 4321, 7053
E. camaldulensis 3454
E. tereticornis 3454
farm forest(ry) 1799, 1802, 1817
fertilizers 3212, 3213, 3729, 3732
fire 4759, 6904
fires, forest 2750, 6905, 6906, 6907, 6908, 6909
flora/check lists 1822, 2182
forest policy 962, 963, 1808
forest production 4514
forests and forestry 3168, 6308
fuel plantations 530
fuelwood 530
history, forest(ry) 6310, 6905
insects 39
international aid and collaboration 6275
irrigated stands 573
landscape 1303, 4320
legislation 1808
machines, tools, equipment 4938
nutrient cycle 3721, 3724
periodicals and serials 1845
Phytophthora cinnamomi 1640, 2884, 2885, 3503
plantations 1025, 1299, 6788
private forest(ry) 1480
productivity, forest 5725
provenance studies 2532
Pseudotsuga menziesii 2532
public relations 1025, 4327
research 1845, 6310
seed sources 3454
soil types 3716
succession 3426
surveys, forest 3320
thinning 4514
vegetation types 2890, 4130, 7053
vegetational history 3426
wildlife 38, 1299
Australia, ACT
biological control 5983
conferences, symposia 3714
insects 2973
nutrient cycle 2108
plantations 2108
research 42
spacing 1815
wildlife 7283
Australia, Northern Territory
nutrient cycle 6852, 6853
Pinus caribaea hondurensis 3222
reclamation of degraded land 6852, 6853
soil types 3222
Australia, NSW
biological control 5983
Cylindrocladium scoparium 4864
diseases, tree 41, 5985
Dothistroma septospora 3535
Eucalyptus delegatensis 3462
E. grandis 4587
farm forest(ry) 1805
fire 1546
flora/check lists 2797
grazing and pasture 1165
hydrology 1775
insects 2973, 5985
land classification 41, 387
land use 243
logging 1775, 2737
nutrient cycle 4690
Australia, NSW *contd.*
Phytophthora cinnamomi 7159, 7160
Pinus radiata 3496
pollution, water 2737
remote sensing 243, 3324
seed sources 3462
soil types 3535
vegetation types 1165
Wallabia bicolor 1766
wildlife 1766
Australia, Queensland
Araucaria hunsteinii 4516
Callitris columellaris 4599
Dendrocnide spp. 4531, 4532
diseases, tree 4794
Eucalyptus spp. 642
E. grandis 3455
forest site classification 1851
mangroves 5782
nutrient cycle 4690
plantations 4515
remote sensing 623, 6780
seed sources 3455
site preparation 4515
species trials 4516
weed control 4532
yield studies 4598, 5217
Australia, South Australia
fertilizers 1973, 5154
fire control 4731
mammals 888
soil types 2111
species trials 87
vegetation types 2111
weed control 1973
wildlife 888
Australia, Tasmania
Athrotaxis spp. 6126
burning, controlled 2589, 6928
choice of species 1922
dendrochronology 6126
diseases, tree 789, 2780
economics, forestry 3339, 3340, 3341
Eucalyptus spp. 6928
E. delegatensis 3462
E. globulus 3448
fertilizers 3214
insects 818
palaeoecology 2804
private forest(ry) 3341
provenance studies 3448
regeneration, natural 2589, 6928
seed sources 3462
Sirex noctilio 2971, 6027
Stathmorrhopa aphotista 818, 821
Australia, Victoria
Armillaria spp. 4877
A. luteobubalina 2886
botanic gardens 4355
catchment areas, management 894
diseases, tree 4923
Eucalyptus delegatensis 3462
E. obliqua 6850, 6851
farm forest(ry) 1804
hydrology 894, 5447
mammals 7285, 7286
nature conservation and reserves 7285, 7286
nutrient cycle 3727
Phyllonorycter messaniella 5395
Pinus radiata 4542
productivity, forest 3727
recreation 1826
regeneration, natural 4499
seed sources 3462
Sextius virescens 798
soil survey 1120, 1121
soil types 6850, 6851
street trees 7377
thinning 4542
urban and suburban forest(ry) 4877
weed control 6549
Australia, Western Australia
Acacia aneura 1110, 4628
agroforestry 1806
catchment areas, management 452, 4328
diseases, tree 383, 789
drought 1110
Eucalyptus gomphocephala 1812
E. marginata 383, 655
farm forest(ry) 1800, 1806, 1807
grazing and pasture 1812, 1818
hydrology 1267, 7299
Australia, Western Australia *contd.*
insects 416
Juglans regia 1811
land use 1800
mining wastelands 906
mycorrhiza 7134
nature conservation and reserves 5034, 5071
Perthida glyphopa 416, 2951
Phylacteophaga froggatti 2972
Pinus pinaster 7299
reclamation of degraded land 906
recreation 5071
regeneration, natural 4628
thinning 582, 1801
vegetation types 5071
wildlife 5034
Austria
Abies spp. 6176, 6177
accidents 1907, 3792
afforestation 3044
avalanches 3056, 7303
botanic gardens 7031
breeding, tree 3464
concessions and licences 1888
economics, forestry 1483, 5755, 6790, 7303
education and training 3184
erosion 4301
farm forest(ry) 7353
fire control 4727
forest policy 3153, 3161
forest site classification 615
forests and forestry 1888, 2479, 3161, 6132
fuel resources 3796
Gilpinia pallida 435
history, forest(ry) 6268
hydrology 6079, 6821
land use 3153
legislation 3161
management, forest 3056, 5755
measurement systems, units 6697
mining wastelands 6095
Otiorrhynchus ovatus 427
periodicals and serials 6132
pollution, air 3378
protection forest 3027
provenance studies 6176, 6177
reclamation of degraded land 6095
recreation, forest 3696
research 2479, 3464
roads 1483
Salix spp. 7031
silviculture 3027
snow damage 2703, 3044
soil survey 6854
stand characteristics 4289
statistics, forest 3161
surveys, forest 3967
taxation 522, 1333
trade 1888
vegetation types 7048, 7050
virgin forest 4289
wildlife 4289, 6060
Auxiliary species (*see* Nurse and auxiliary species)
Auxins (*see* Growth regulators, auxins)
Avalanches 899, 3040, 3046, 3049, 3050, 3053, 3054, 3055, 3056, 6361, 7303
conferences, symposia 3035
Bacteria 386, 748, 1586, 2100, 3502 (*see also* Soil biology, bacteria)
Bacteria in wood 2924
Bacterial diseases of insects 2986, 3642, 7248
Bacterial diseases of trees 362, 1186, 2310, 2311, 2923, 2925, 3469, 3548, 3549, 3550, 4933, 4934, 5375, 5376, 5850
Balloons 5276
Bamboos
anatomy, morphology 2765, 5820, 5822, 7009
biology and physiology 6149, 6501, 6665
chemistry 2655, 5302, 5820, 7052
distribution 5554, 6149
ecology 3438, 6665, 7009, 7052
light relations 2656
management 2481
mensuration 2655, 2656
pests and diseases 4890, 5393
propagation 1447, 4434, 4562, 6664, 7009

Bamboos *contd.*
silviculture 2481, 6664, 6665
Bangladesh
Avicennia officinalis 2484
bamboos 2481, 4562, 4890
Bambusa vulgaris 4434
conferences, symposia 2480
diseases, tree 4890
education and training 3783
environmental degradation 2486
erosion 2482, 2485
forests and forestry 2480
fuel resources 3187
fuelwood 3187
Heritiera littoralis 2483
management, forest 4378, 4620, 4621
nature conservation and reserves 5069
provenance studies 3192
recreation, forest 5069
seed sources 3192
Shorea robusta 4568
silviculture 4488
Tectona grandis 2482
working plans 4620
Bark
anatomy, morphology 1154, 1554, 2770, 2771, 3409, 4069, 4073, 4781, 6937, 6939
biological decomposition 552
book 4073
calorific value 2506
chemistry 1942, 2774, 2776, 3412, 4243, 4785, 5299, 5307, 6984, 6985, 6991
diagnostic value 4073, 4656
injuries 1546, 5038, 5039, 5764
pests and diseases 805, 2164, 2935, 3531, 4243, 4938, 6028
physical and mechanical properties 1942
quantitative measures 1063, 1157, 1451, 2016, 3285, 5206, 5209, 6679
uses and products 3, 1810, 4073, 4307, 5618, 5676, 6546, 6984, 6985
variation 1157
Bark beetles 173
accidental introduction 6021
attractants 830, 2348, 3570, 3621, 3625, 4978, 4998, 5409, 5410, 6013, 7232
brevicomin 428, 1712, 2993, 3568
frontalin 428, 1712, 2993, 6015
frontalure 3567, 3648
ipsdienol 839, 4237, 7259
ipsenol 834, 839, 7259
methylbutenol 4237, 4238
myrcene 1712, 2993
turpentine 428
typolur 4238
verbenol 428, 839, 877, 4237
verbenone 428, 1712, 3568
bibliography 2960
biology and ecology 424, 429, 826, 828, 831, 836, 841, 2339, 2342, 2959, 3627, 3631, 4235, 4236, 4239, 4240, 4241, 4245, 4247, 4255, 4978, 5406, 5408, 7230
conferences, symposia 2955
control 864, 1752, 2331, 2348, 2367, 2892, 2996, 3647, 3648, 3649, 3652, 4194, 4267, 4269, 5431, 5434, 7230
damage by 824, 1231, 2341, 2961, 2967, 4156, 4249, 4250, 5752, 7226, 7236
detection 2967
dispersal 832, 3557, 3559, 3568, 3569, 3570, 3571
effect on increment and yield 2331
effect on succession 4244
forecasting 425, 4982
host relations 829, 830, 1223, 1718, 2960, 2963, 3570, 3623, 3625, 4231, 4243, 4247, 4986, 5406, 7232
identification 1225
insect associates 827, 841, 3620, 5404
parasites and predators 428, 827, 831, 839, 840, 1714, 2342, 2958, 3574, 3622, 3624
study methods 7221
physiological effects 4195
physiology 826, 827, 2340
population studies and surveys 423, 826, 836, 838, 1223, 1719, 2348, 2351, 2955, 3569, 3574, 4229, 4249, 4250, 4251, 6023
predisposing factors 6016, 7220
prevention 829, 2355, 4269, 6018, 7226
Bark beetles *contd.*
repellent pheromones 3570, 3629, 4978, 5410
resistance to 834, 2341, 3570, 5434, 7232, 7233, 7234
review 3570
study methods 1223, 2967, 4229, 4938
systems analysis and simulation 832, 2955, 2959, 7234
taxonomy 2962
trapping 877, 2348, 2993, 3571, 3621, 3652, 4238, 4998, 6013
vectors of disease 422, 828, 836, 2340, 2892, 4248, 6185
Barking, manual methods 4938
Basal area 234, 3925
measurement 4572, 6672 (*see also* Angle-count)
Bats (Chiroptera) 2380
Bears 3013
Beating up 2004
Beavers 184
Bees 1852, 5865, 6666
Belgium
Acer pseudoplatanus 568
breeding, tree 349, 1923
Cervus elaphus 3012
Cinara cupressi 174
deer 3016
Fagus sylvatica 2538, 2745
fertilizers 4462
forests and forestry 50, 5542, 6233
Fraxinus excelsior 2007
history, forest(ry) 50
irrigated stands 4462
Juglans nigra 2021
management, forest 2416, 3686
names, plant 714
Picea abies 1971, 2648
Pinus nigra 2612
pollution, general 921, 1134
Populus spp. 714
P. × *canadensis* aggr. 584, 2006
P. 'Robusta' 2021
productivity, forest 2051
propagation 6415
provenance studies 1923
Quercus petraea 2651
Q. robur 2651
recreation, forest 2444
resources, forest 1896
seed production 2538
silviculture 564, 2006, 2007
soil types 1118, 2092
statistics, forest 2658
street trees 1134
thinning 2001, 2612
urban and suburban forest(ry) 921
vegetation types 584, 7050
volume tables 2020, 2648, 2651, 3287
wildlife 3655
Belize
Cordia alliodora 3460
seed sources 3460
Berries (*see* Fruit)
Bhutan
Cupressus corneyana 7025
Pinus bhutanica 7026
Bibliography
Acacia nilotica 937
Adelges piceae 4953
afforestation 5064
agroforestry 1279, 1292, 7344
aquaculture 7290
Araucaria spp. 6133
arid zones and deserts 879
Artemisia spp. 2757
bark beetles 2960
biological control 870
biomass production 6716
burning, controlled 4041
Canada 5081
China 509
Choristoneura spp. 4219
Coleophora laricella 2332
Dicotyledoneae 2178
education and training 1905, 1906
farm woodlands 1292
fire effects 2373
fires, forest, history and prehistory 5802
fish 7290
fishing and fishery management 5040, 7290
Bibliography *contd.*
Forest of Dean 3163
forestry 3111
forests and forestry, general 509, 961, 1846, 1847, 1848, 1849
frost resistance 561
fuel 982
Gilpinia hercyniae 2976
Gmelina arborea 6138
grazing and pasture 879, 5025
insect pests of trees 3582
land use 4315
Leucaena spp. 6139
L. leucocephala 679, 680
Lophodermella sulcigena 3546
Lymantria dispar 1689
mangroves 5897
maps, vegetation 295
mining wastelands 1278, 1520, 1793, 5064, 7329
Morocco 1
Nepal 5491
photosynthesis 5298
phytopathology, general 2870
pollution, air 6878
Populus spp. 681, 682
precipitation, solutes in 6868
Prosopis juliflora 683
reclamation of degraded land 1278, 1790, 4306, 7329
recreation 5072
recreation, forest 2442
research, forest(ry) 5081
respiration 5298
Sesiidae 807
synecology 4131
taxonomy 2178
tissue culture 2546
tropical timbers 6136
Ulex europaeus 577
USA, Wisconsin 1772
vegetation types 4131, 7050, 7051
whole-tree utilization 608
wildlife 2373, 2442
wind, relation to fire 5799
Biochemistry 7082, 7083
Biographies
Chalk, L. 6952
Heyer, C.J. 5533
Mayer, H. 5532
Record, S.J. 6952
Rendle, B.J. 6952
Reum, J. A. 5083
Vater, H. A. 5531
Zon, R. 2461
Biological control (*see also* Bacterial diseases of insects; Parasites of insect pests; Predators of insect pests; Virus diseases of insects)
conferences, symposia 871, 6550
fungus diseases 386, 2274, 2279, 2281, 2295, 2903, 2911, 2912, 3518, 3532, 3533, 4163, 4174, 4186, 5980, 5983, 6454, 7086, 7151, 7165, 7177
insect pests 869, 871, 872, 3105, 4946, 4947
bibliography 870
by *Agathis* 2333
by *Apanteles* 2981
by *Bacillus* 2986
by *Beauveria* 1739, 3592, 6012
by *Campoplex* 412
by *Chlaenus* 2357
by *Chrysocharis* 2333, 3641
by *Cleobora* 1243
by *Closterocerus* 434
by *Coccinella* 6045
by *Compsilura* 6002
by *Cyzenis* 7257
by *Entomophthora* 2334
by *Formica* 1742, 1743, 1745, 1746, 1747, 1748, 1749, 1750, 1751
by *Glypta* 2981
by *Grypocentrus* 439
by *Hyposoter* 5004
by *Lathrolestes* 439
by *Metarrhizium* 1739
by *Nemosturmia* 7256
by *Neoaplectana* 835, 2988
by *Nosema* 1740
by *Parus* 2371, 2989
by *Phomopsis* 2892
by *Pleistophora* 1740, 2987, 4217

Biological control *contd.*
insect pests *contd.*
by *Sclerodermus* 2352
by *Tetrastichus* 3598
by *Torymus* 853
by *Trichogramma* 5426
by *Trichophora* 3578
by *Zoophthora* 5988
of *Agriopis* 1747
of *Alsophila* 1747
of *Anomala* 5421
of *Archips* 1747
of *Bupalus* 1751
of *Choristoneura* 1740, 1743, 2981, 2982, 2988, 4217, 4975
of *Coleophora* 1750, 2333, 3641, 4222, 4265
of *Colotois* 1747
of *Corythucha* 3592
of *Cryptorhynchus* 6012
of *Cyllene* 7231
of *Dendrolimus* 868, 1751, 5004
of *Diprion* 1745, 2985, 4266
of *Dryocosmus* 853
of *Euproctis* 3616
of *Evannis* 1747
of *Exoteleia* 1678
of *Galerucella* 6045
of *Glena* 3578
of *Hyblaea* 2357
of *Hylobius* 835
of *Hyphantria* 2986, 5421
of *Lambdina* 2334
of *Leucoma* 2986
of *Lymantria* 812, 1738, 1751, 4210, 4966, 6002, 6036
of *Malacosoma* 1740
of *Neodiprion* 434, 6035
of *Operophtera* 1687, 1747, 2986, 7257
of *Orgyia* 4262
of *Otiorhynchus* 1739
of *Pandemis* 1747
of *Panolis* 1751, 7256
of *Paropsis* 421, 1243
of *Pristiphora* 1745, 4259
of *Rhyacionia* 412
of *Schizolachnus* 5988
of *Scolytus* 2892
of *Sirex* 3635
of *Thaumetopoea* 1745, 2986, 2989, 3598
of *Thecodiplosis* 4994, 5421
of *Tortrix* 1747
of *Xanthogaleruca* 2988
of *Xanthoteras* 4258
parasites and saprophytes 790, 5183
weed trees and shrubs 2603, 5953, 6547, 6550
weeds 5183
Biomass production 71, 73, 74, 75, 77, 80, 81, 113, 600, 3428, 3737, 3740, 5492, 5515, 5522, 5724 (*see also* Foliage, quantitative measures; Increment, weight; Litter, forest, quantitative measures)
bibliography 6716
book 4591, 5570
conferences, symposia 70, 1863, 5131, 5570
data recording and processing 6735
for energy 981, 1076, 1460, 1910, 1911, 2005, 2034, 2046, 2507, 2508, 2521, 3188, 3743, 3761, 3799, 4591, 4701, 5132, 5133, 5134, 5135, 5136, 5137, 5570, 5572, 5578, 6335, 6345, 6353, 6354, 6356, 6520
measurement 3947
periodicals and serials 3189
quantitative measures 1080, 1083, 1318, 2029, 2030, 2031, 2032, 2034, 2035, 2036, 2046, 2048, 2645, 2655, 2656, 2664, 3001, 3119, 3308, 3317, 3320, 3439, 3749, 3922, 3933, 3944, 3946, 3953, 3954, 3961, 3974, 4136, 4569, 4570, 4582, 4587, 4589, 4596, 4643, 5132, 5578, 5714, 5934, 6295, 6353, 6698, 6700, 6709, 6711, 6715, 6736
review 3805
study methods 609, 1083, 2028, 2035, 2036, 2217, 6715, 6735
subtropical/tropical zones
tree layer 1076, 1458, 2043, 2052, 2716, 3727, 3940, 5215, 6691, 6718
Biomass production *contd.*
subtropical/tropical zones *contd.*
whole communities 2645, 3439
systems analysis and simulation 2828, 3944, 3950, 3961, 4701, 5725, 6356, 6718
temperate/subarctic zones 2217, 6295
subordinate layers 1533, 2203, 2849, 4586, 5017, 5226, 5250, 5267, 6726
tree layer 189, 198, 604, 607, 1315, 1465, 2038, 2051, 2725, 2816, 2829, 2841, 3956, 4408, 4577, 4586, 4590, 4594, 4601, 5723, 6700, 6710, 6727, 6739
whole communities 605, 2030, 6866
Birds 5504, 6036
biology and ecology 38, 444, 446, 883, 1246, 1250, 1253, 1259, 1261, 1741, 1770, 3015, 3419, 5031, 5033, 5036, 5526, 6027, 7265, 7268, 7273
Colinus 6061
Corvus 1857
Dendrocopos 5442
Nucifraga 5310
Paridae 2371
Philohela 1257
Vireo 2374
conferences, symposia 884
conservation and management 446, 883, 884, 1249, 1250, 1259, 1261, 1887, 2375, 3657, 5032, 5033, 5526, 7265
damage by 3127, 4797, 5310
effect of fire 273
effect of pesticides 443, 2121, 4283
Bluestain (*see* Stain fungi)
Boar, wild (*see* Pigs)
Bogs 6543 (*see also* Afforestation, peatland; Vegetation types, bogs)
Book
afforestation 2397, 3061
anatomy, plant 686
animal geography 4122
arboriculture 1835
arid zones and deserts 3061
Australia 2182, 2750
bark 4073
biomass production 1911, 4591, 5570
botany 6929
breeding, tree 5917, 7119
Coleoptera 3632
Coniferales 2622
conservation, soil and water 449
dendrochronology 4361
Developing Countries 936
Diptera 7239
diseases of trees, general 1186, 2869, 3478, 5942, 7124
ecology, animal 1251
ecology, forest and forestry, general 2194, 5984, 7037
ecology, plant 686, 4791, 5881
economics, forestry 2075, 6274
energy resources 1911, 6135
environmental conservation, general 2474, 6102
Eucalyptus spp. 1151
fires, forest 2750
fish 2381
fishing and fishery management 447
flood-plain forests and forestry 2381
flora/check lists 1167, 2182, 3109
forestry 3710, 4362
forests and forestry, general 6929
Ghana 1592
history, forest(ry) 51, 1330, 2474, 6227, 6248
Hymenoptera 7239
insect pests of trees 3584, 4939, 4940, 7124, 7199
insecticides 2604
labour, forest 4404
land use 1819, 5093, 6135
landscape 2446
landscape and forestry 4350
Lauraceae 4074
Lymantria dispar 5996
Malacosoma americanum 1686
management, forest 2075
mangroves 2120
mechanization in forestry, general 3907
Mexico 2244
mycoplasmal diseases of trees 5378
national parks 3097
Book *contd.*
nature conservation and reserves 2422, 3692
pesticides, general 1735
physiology, plant 4791
phytopathology, general 4147, 5332, 7123
pigs 7288
Pinus sylvestris 2194
plant geography 4122
pollution, air 259, 1128
pollution, water 2120
Populus spp. 2869, 3478, 7119
protection of forests, general 860
recreation 6135
recreation, forest 7364
regeneration, natural 3854
remote sensing 245, 6769
resources, forest 6135
Sabah 2120
seed dispersal 5869
shelterbelts 5060
silvicultural systems and types of felling 3854
silviculture 2523, 3151, 6368
soil 2708, 6818
soil survey and mapping 4008
soil types 4008, 6816
succession 3424, 7037
surveying and mapping 1093
Sus scrofa 7288
synecology 2244
tissue culture 3209
trees and shrubs, general 1582, 2181, 2799, 4350, 6227
tropical forests and forestry 3151
urban and suburban forest(ry) 1835, 2446, 3699, 6113
valuation of forests and land 6792
vegetation, general 4818
vegetation types 1592, 7050
weedkillers 2604, 6553
wildlife 1251, 3664
wood anatomy, general 1158, 6951
Book-keeping (*see* Accountancy)
Borders, forest 1300, 2028, 3437, 6054
Borers, shoot 4255
Borers, wood 1713
accidental introduction 6021
attractants 5992
lineatin 426
biology and ecology 1720, 4230, 4232, 4233, 4234, 5992, 7229, 7235
control 431, 874, 2956, 5434, 7229
damage by 6008
dispersal 3566
distribution maps 833
nutrition 2350, 6008
parasites and predators 5003
population studies and surveys 1719
resistance to 5434
study methods 2350
trapping 837
vectors of disease 874, 3566
Botanic gardens 2453, 4355, 7031
Botany
book 6929
conferences, symposia 6144
systematic 1574, 1575, 1576
Botswana
fire 2511
legislation 2511
Bräcke cultivator 1034
Bracken control 6554, 6557
Branches 2142, 2260, 4100, 5818
quantitative measures 4101, 4839, 6691
Branchlets 6019
Branchwood 6942, 6964
Brashing (*see* Pruning)
Brazil
afforestation 6298
Araucaria angustifolia 2657, 3369
Aspidosperma spp. 1166
breeding, tree 7117
Cydia araucariae 3586
development, forestry 3180, 5562
Dicotyledoneae 2178
Dirphia araucariae 3586
diseases, tree 1201, 4182
economics, forestry 6366
education and training 3784
Eschweilera spp. 1578
Eucalyptus spp. 1431, 7117

Brazil *contd.*
Eucalyptus contd.
E. grandis 553
fire control 676
flora/check lists 719
forest policy 6296, 6297
forests and forestry 952, 6297, 6298
insects 7200
international aid and collaboration 3180
land use 3757
landscape 2445
Lauraceae 1590, 1591
logging 6297
Loranthaceae 1575
management, forest 3757
mycorrhiza 3485
national parks 3694
nature conservation and reserves 3014
periodicals and serials 960
plantations 952, 2597, 4504, 6297
planting stock 2597
Podocnemis expansa 3014
provenance studies 5585
resources, forest 952
site preparation 3879
species trials 5585
surveys, forest 3316, 5744
trees and shrubs 1555
trees and shrubs for 2597
vegetational history 1578
Brazil, Amazonia
bees 6666
book 2381, 4940
catchment areas 2381
choice of species 1916
defoliation 4257
deforestation 1858, 1861
ecology 1858
erosion 1861
fish 2381
fishing and fishery management 1859, 1860
floods 1859
hydrology 2388
insects 4940
land use 3088
limnology 1858
mycorrhiza 1190
nutrient cycle 1507
plantations 3088, 6299
remote sensing 1859
soil survey 1499
soil types 4691
vegetation 1499
vegetation types 1190, 1507, 2246
Brazil, eastern
Coccoloba spp. 1576
Dalbergia decipularis 1589
Brazil, south-eastern
Atta spp. 2994
Dalbergia decipularis 1589
Pinus elliottii 351
plant protection 2994
regeneration, natural 726
Brazil, southern, nursery management 117
Breeding, tree 82, 1612, 2005, 7095 (*see also* Genetics, plant, general)
assessment of genetic gain 735, 3260, 4834, 5925
book 5917
conferences, symposia 301, 322, 323, 1600, 2248, 2249, 5918, 6179
criteria for selection 357, 734, 1610, 1611, 2255, 2258, 4835, 4841, 5329, 5929, 5933, 7080
early selection 351, 733, 1610, 2862, 2863, 3809, 4063, 4839
ecological aspects 2248
economics 1603
for resistance to disease 157, 170, 315, 316, 737, 781, 782, 1197, 1608, 1609, 1614, 1663, 2301, 2861, 2902, 2910, 2914, 3469, 3477, 4151, 4152, 4179, 4187, 5919, 5923, 5940, 5965, 6183, 6185, 7111, 7183
for resistance to injuries 345, 652, 3471, 5923, 6183, 6371
for resistance to pests 157, 834, 5919, 6183, 7105
for wood properties 356, 1157, 1183, 2867, 3260, 3399, 4152, 4831, 4839, 6388, 6901, 6958, 7079, 7106
inbreeding effects 1607, 1613, 2253, 4836
Breeding, tree *contd.*
methods and techniques 92, 105, 106, 319, 337, 338, 344, 732, 737, 741, 998, 1197, 1604, 2248, 2251, 3128, 4141, 4151, 4831, 4842, 5605, 6182, 6430, 7073, 7107, 7108, 7120 (*see also* Flowering, induction; Mutagens; Pollination)
phenotypic selection 652, 734, 1060, 1157, 2257, 4146, 5924, 5934, 7108, 7121, 7122
progeny testing 319, 2248, 2250, 7106
Abies 7105
Acer 6232
Betula 6901, 7070
book 7119
Eucalyptus 5331
Fraxinus 4842
Larix 7070
Liquidambar 5940
Picea 311, 312, 4835, 5280
Pinus 1602, 1917, 2253, 2524, 2863, 5930, 7075
Populus 5940, 7119
Prunus 7122
programmes and research 741, 1600, 2248, 6430
Asia, tropical 3788
Australia 740
Austria 3464
Belgium 349, 1923
Brazil 7117
Bulgaria 4835
Canada 1599
Canada, Quebec 352, 1181, 5930
Fiji 1917
France 157, 2467
Germany, East 2862
Germany, West 3465, 3466, 3470
Great Britain 3475, 4353
India 3477, 3755, 4152
New Zealand 735, 746
Norway 5280
Scandinavia 348
Sweden 326, 336, 743, 744, 3195
tropical 2864
USA 2861
USA, Lake States 302
USA, Missouri 2252
USA, West Coast 5330
USSR 4842, 5924
USSR, Russian region, Ciscaucasian 5933
Zimbabwe 5331
review 4141
systems analysis and simulation 5916
use of ploidal variants 341, 3465, 7120
Bridges 2698
Browse 446, 605, 880, 1110, 1285, 1596, 1765, 1814, 2161, 2556, 2772, 3002, 3003, 3004, 3010, 3019, 3360, 4078, 5013, 5718, 6046, 7118, 7279, 7281
Browsing damage 567, 885, 2998, 2999, 3000, 3017, 3021, 3022, 3471, 3660, 5030, 6058, 6499, 7272, 7277
Brunei, *Chionanthus* spp. 1570
Brush control (*see* Weed trees and shrubs, control)
Brush cutters 576, 3272, 6337
Brushwood and scrub, utilization 4406
Budding (*see* Propagation, vegetative, budding)
Buds 96, 2255, 4090, 4785, 5863
Buffaloes 1853
Bulgaria
biological control 2986
breeding, tree 4835
economics, forestry 6786
hydrology 2846, 5044
microclimatology, micrometeorology 2746
nursery management 116
palaeoecology 4815
phenology 4766
Picea abies 2817, 2819, 2846
pollen 4815
pollution, air 4714
pollution, general 6870
provenance studies 6370
Quercus robur 6370
regeneration, natural 4501
Rupicapra rupicapra 5443
secondary or cut-over forest 4502
Bulgaria *contd.*
silviculture 4555
vegetation types 4550, 7067
wildlife 5443
yield tables 4610
Burma
agroforestry 6097
education and training 3782, 3783
Picea farreri 7022
Tectona grandis 6630
Burners, wood 979
Burning, controlled 267, 625, 671, 672, 5498, 6532 (*see also* Site preparation, burning)
bibliography 4041
disease control 41, 5002
economics 4755
effects 270, 1038, 1150, 1527, 1537, 2128, 2129, 2138, 2141, 2589, 2756, 3739, 3740, 3801, 4693, 4762, 5024, 5030, 5517, 6866, 6920, 6926, 6927, 6928
equipment 5811
methods 1038, 2752, 4040, 4749
policy, planning 673, 674, 1137, 1141, 1526, 1545, 2129, 2138, 4749, 5017, 5271, 6918, 6920
research 1537, 2128, 4045, 4755
season, meteorological conditions 2138
systems analysis and simulation 1538, 1539
Burrs and tumours 281
Burundi, *Callitris calcarata* 6364
Bush fallow (*see* Shifting cultivation)
Butt rots (*see* Root and butt rots)
Cableways
economics 5649
makes and specifications 3904
work studies 3904
Callipers 6680
Callus 2151
Calorific value of plants or plant products 269, 1076 (*see also* Thermal properties of wood)
Cambium and cambial activity 1562, 2150, 4082, 4773, 4774, 4783, 5301, 5823, 5829, 6940, 6957, 6974, 7004
review 6956
Cameroon
Cercopithecus aethiops tantalus 1854
flora/check lists 2798
fuel resources 5115, 5117
national parks 917
pollution, general 2245
vegetation types 2245
wildlife 917
Camping 3697, 4343
Canada
amenity forests, parks 6112
bibliography 5081, 7051
breeding, tree 1599, 1600
Ceratocystis ulmi 7146
Choristoneura spp. 4970
C. fumiferana 2362
Christmas trees 3909
conferences, symposia 1180, 1322
conifers 5582
diseases, tree 3588
economics, forestry 4365
fire 1527
fire control 1146, 2753, 4038, 4039, 4754, 4755
fires, forest 1140, 4736, 6913, 7359
flora/check lists 4107
forest ownership 1331
forest policy 4395, 5561
forest production 515
forest site classification 7051
forests and forestry 54, 1322, 2522, 6221
fungi 990, 7149
insects 795
labour, forest 6341
land use 4313, 4314, 4315, 4317, 5045, 7340, 7341
legislation 6112
management, forest 2418, 3709, 4365
maps 7062
mining wastelands 454, 4306
national parks 4396, 7359
nurseries, tree 3845
nursery management 4468
periodicals and serials 3709
pests, general 990, 1673, 3588

Canada *contd.*
Picea spp. 2818
P. glauca 1455
P. rubens 1913
Pinus resinosa 1427
P. strobus 1427
pollution, water 2361
Populus tremuloides 3938
private forest(ry) 974
productivity, forest 6295
provenance studies 1913
reclamation of degraded land 454, 4306
recreation 4396
recreation, forest 1827, 4365
regeneration 54
regeneration, natural 2818
research 4754, 5081, 7051
resources, forest 516, 4365
seed production 1180
silviculture 2522, 5561
soil types 515
surveys, forest 2691, 4645
timber trade 954
trees and shrubs 5582
urban and suburban forest(ry) 1600, 6112, 7380
vegetation types 515, 7051, 7062
volume tables 1455, 6693
wildlife 2418, 4365
Canada, Alberta
afforestation 3244
catchment areas, management 1266
choice of species 3244
Choristoneura conflictana 2953
Coleotechnites starki 3565
conferences, symposia 1266
diseases, tree 1615, 1674, 1675
environmental degradation 4668, 6766
forest site classification 2857
forests and forestry 4394
hydrology 1271, 2387, 4692
land classification 2857
meteorology 1271
mining wastelands 455, 4668, 6766
pests, general 1674, 1675
Picea glauca 1041
Pinus contorta 1041, 1051
planting stock 3867, 5166
Populus tremuloides 4601
productivity, forest 4582, 4601
Proteoteras willingana 2995
reclamation of degraded land 455
regeneration 1051, 3245
remote sensing 4668, 6766
resources, forest 519
shade trees 2366
shelterbelts 2366
thinning 6600
Canada, British Columbia
Alnus rubra 1430, 2005
Armillaria mellea 7166
Barbara colfaxiana 5397
breeding, tree 1157
Buprestis aurulenta 7229
catchment areas, management 5453
Choristoneura conflictana 4961
C. fumiferana 1709
C. occidentalis 4997, 5991, 6003, 6044, 6204
Dendroctonus spp. 2355
D. rufipennis 3625, 5408, 6018
Dentroctonus pseudotsugae 2322
diseases, tree 1208, 7179, 7184, 7185
Dryocoetes confusus 7230
energy resources 6354
erosion 4018
fertilizers 1373, 1948, 4709, 7068
fire control 4035
fishing and fishery management 447, 3024, 3025
Gilletteella cooleyi 6040
Inonotus weirii 4162
landscape 7058, 7059
Lasiomma anthracina 7246
logging 4018
Lymantria dispar 2365, 2944
management, forest 1089, 3301, 3303
mining wastelands 455
Neodiprion spp. 7220
nutrient cycle 4709, 5250
Operophtera brumata 1687
Orgyia pseudotsugata 2322
pests, general 1208
Canada, British Columbia *contd.*
Picea engelmannii 1078
P. glauca 1078
Pinus contorta 1763, 6538
plant protection 2355, 4997
planting stock 1398
pollution, general 2365
productivity, forest 6354
Pseudohylesinus spp. 7220
Pseudotsuga menziesii 1045, 1352, 1353, 1945, 6692, 7064, 7065, 7098
reclamation of degraded land 455
recreation, forest 4342
regeneration 1762, 1963
regeneration, natural 3234
remote sensing 1476
resources, forest 517, 518
seed orchards 1353
seed production 1352, 1930
silviculture 3963
site preparation 3234, 6538
soil survey 3353
soil types 3358, 6832, 6834
succession 2233, 2802
surveys, general 6204, 6205
thinning 1045, 1373, 1948, 7068
Trachykele blondeli 7235
Trisetacus campnodus 2353
Tsuga heterophylla 3114, 3118, 3132, 3135
vegetation types 1089, 7058, 7059
Verticicladiella spp. 7169
Xyloterus lineatus 7227, 7228
yield studies 5747
Canada, eastern
Abies balsamea 3276
Choristoneura fumiferana 1705, 4220
Christmas trees 3276
Canada, Manitoba
Arceuthobium pusillum 1671
browse 1765
defoliation 7204, 7205
diseases, tree 422, 1674, 1675, 4169
fires, forest 5407
forests and forestry 4394
Hylurgopinus rufipes 2367
insects 422
meteorology 7204, 7205
nursery management 4169, 6382
pests, general 1674, 1675
Picea glauca 6379, 6382
P. mariana 6380, 7104
Pinus banksiana 6378
planting stock 6515, 6516, 6517
Populus 'Walker' 6722
provenance studies 6378, 6379, 6380, 6381, 6382, 7104
regeneration 6216
site preparation 4521
spacing 3875
Canada, Maritime Provinces
Choristoneura fumiferana 5998
diseases, tree 794
insects 794
Lachnellula willkommi 5970
management, forest 2628
nursery management 1379
Picea abies 984
pollution, general 2119
protection forest 1784
provenance studies 984, 2530
seed production 4419
silviculture 2628
trees and shrubs for 2119
urban and suburban forest(ry) 1836
Canada, New Brunswick
Abies balsamea 1912
birds 1770
Choristoneura spp. 2946
C. fumiferana 815, 3651, 5430, 6041
diseases, tree 4905
fertilizers 4448, 6857
fire control 1149
fishing and fishery management 7289
flora/check lists 4802
Fraxinus americana 6500
Hylurgopinus rufipes 2367
microclimatology, micrometeorology 1485
Picea spp. 1423
P. mariana 6411
Pinus spp. 1423
P. banksiana 1372
Canada, New Brunswick *contd.*
plant protection 875
pollution, general 1758, 5006
pollution, water 875
Pristiphora erichsonii 433
productivity, forest 3953
propagation 3833
provenance studies 1912
regeneration, natural 6500
thinning 1416
weed control 6566
Canada, Newfoundland
Abies balsamea 4366
A. veitchii 4411
Adelges piceae 3562
Armillaria mellea 2285, 4878
Choristoneura fumiferana 1706, 1707, 2335, 2336
diseases, tree 3526, 3585, 4932
energy resources 1910
Lambdina fiscellaria 2334
mining wastelands 3059
Neodiprion sertifer 2974
nursery management 1955
peatland 2602
pests, general 3585
Picea glauca 2525
P. mariana 1004, 6383
P. rubens 3191
planting stock 1393
pollution, general 3059
productivity, forest 3954
provenance studies 2525, 3191, 6383
reclamation of degraded land 3059
regeneration, natural 1968
site preparation 1980
Canada, Northwest Territories
diseases, tree 1674, 1675
fire 2801
pests, general 1674, 1675
planting stock 5166
succession 2801
vegetation types 2801
Canada, Nova Scotia
Abies balsamea 5174, 6576, 6577
browse 6499
Choristoneura fumiferana 4218, 4971
degraded forest and land 514
Dendroctonus rufipennis 7236
economics, forestry 4554
fertilizers 5153
Fraxinus americana 6500
microclimatology, micrometeorology 1485
Picea rubens 662
plantations 2596
propagation 3833
regeneration, natural 5174, 6500
silviculture 4554
thinning 6576, 6577
Canada, Ontario
Acantholyda erythrocephala 848
Acer saccharum 6698
afforestation 456
arboreta 456
Betula alleghaniensis 6698
biological control 4262
birds 5504
breeding, tree 311, 5918
burning, controlled 5498, 6918
Calosoma frigidum 791
Ceratocystis ulmi 4194
Choristoneura conflictana 4961
C. fumiferana 413, 817, 1240, 1688, 1690, 2356, 2952, 3640, 3646, 4224, 4959, 5429, 5511, 6039
conferences, symposia 5918
Croesia semipurpurana 5384
degraded forest and land 5323
diseases, tree 1676, 3501, 5512, 5513, 5514, 5950
drought 1143
economics, forestry 5496
fertilizers 1949, 3843, 4445
fire 6918
fire control 1143
fires, forest 4030
forest policy 1400
forest site classification 6763
Heterobasidion annosum 1029
Hylurgopinus rufipes 2367
insects 4203, 5511
Larix laricina 1081, 1082

Canada, Ontario *contd.*
legislation 3775
Liriodendron tulipifera 1347
machines, tools, equipment 6504
management, forest 5496, 5501, 5505, 5506, 5507, 5508
mining wastelands 456
mites 4203
mycorrhiza 4844
Neodiprion lecontei 1238, 1737
nursery management 693, 4473
nutrient cycle 5502
Operophtera bruceata 791
Orgyia pseudotsugata 4262
peatland 6506
periodicals and serials 6140
pests, general 1209, 1676
Picea glauca 216, 311, 5500, 6407
P. mariana 219, 1081, 1082, 3859, 5500, 5627, 6402
Pinus banksiana 1002, 1003, 3194, 4445, 4513
P. resinosa 217
P. strobus 218
plantations 3865, 6505, 6506
planting 4520, 6504
planting stock 135, 136, 1396, 1399, 5169, 6468
pollution, air 4712
pollution, general 668
Populus spp. 1209
P. tremuloides 1036, 5950
productivity, forest 6736
provenance studies 3194
recreation, forest 4343
regeneration 1029, 1400, 3859
regeneration, natural 1023, 5627, 5950, 6407
remote sensing 1095
research 5508
Schizolachnus piniradiatae 5988
Scolytus multistriatus 2340
seed production 6402, 6412
silviculture 321, 3993, 6494
site preparation 1036, 3878
site types 5495
sowing, direct 3868, 3869, 5634
spacing 6601
species trials 1347
Sthenopis quadriguttatus 2945
street trees 7385
succession 5497, 5499
taxation 6312
thinning 2617, 2618
urban and suburban forest(ry) 3775
vegetation 4131
vegetation types 1095, 5323, 5493, 5494, 5495, 5496, 5497, 5498, 5499, 5501, 5502, 5505, 5506, 5507, 5508, 5509, 5510, 5511, 5512, 5513, 5514
weed control 3878, 5509, 5510
wildlife 887, 5503
Canada, Quebec
Abies balsamea 3945, 7105
Acer saccharum 6675
Betula alleghaniensis 6676
biological control 439, 1743
birds 1257
breeding, tree 1181, 5930
choice of species 6798
Choristoneura fumiferana 1692, 1743, 1754, 1755, 2337, 2369, 4965, 5403, 5418, 7252, 7280, 7390
dendroclimatology 1842
diseases, tree 4248
ecology, forest 727
economics, forestry 6793, 6794, 6795, 6796, 6797, 6798
fertilizers 199, 549, 1005, 6446
fires, forest 4729
forests and forestry 55
Hylurgopinus rufipes 2367
Juglans nigra 6797
Lymantria dispar 2358, 3600, 3605, 4210
Picea glauca 610
Pinus banksiana 5930, 6723
planting 6523
planting stock 6523
pollution, general 3381, 7258
pollution, water 2360
Populus spp. 198, 199, 298, 1005
P. tremuloides 2590
private forest(ry) 6800
Canada, Quebec *contd.*
productivity, forest 198
provenance studies 7105
regeneration, natural 2590, 5631
remote sensing 727
Salvelinus fontinalis 2360
silviculture 6793, 6794
stand characteristics 298
vegetation types 727, 4137, 4138, 6675, 6676, 6677
wildlife 1257, 7281
Zeiraphera improbana 7213
Canada, Rocky Mts.
Pseudotsuga menziesii 3762
regeneration 3762
Canada, Saskatchewan
defoliation 7204, 7205
diseases, tree 1674, 1675
forest site classification 6781
forests and forestry 4394
land use 5470
meteorology 7204, 7205
pests, general 1674, 1675
Picea glauca 4592
planting stock 1013, 3867
pollution, air 264
Populus tremuloides 4601
productivity, forest 4601
regeneration, natural 4666
remote sensing 6209
silviculture 3896
statistics, forest 5470
surveying and mapping 6209
Canada, Yukon
diseases, tree 1208, 7185
fires, forest 6912
pests, general 1208
regeneration 5173
vegetation types 7060, 7061
Canary Islands
flora/check lists 3109
ornamental trees and shrubs 3109
Canes and rattans 2012, 2013, 5680, 5681, 6663
Cankers 162, 165, 167, 168, 169, 170, 171, 175, 176, 186, 391, 1652, 2877, 4905, 7153, 7179
assessment 164
fauna 5361
fungal and bacterial flora 2302, 2904, 2909, 3526
histology 163, 5355
role of wounds 2164, 3526, 5354, 5361
Canopy 1586
measurement 592, 4788
structure 3291, 6700
study methods 1097, 4368, 5915
Cape Verde
afforestation 2492
ecology 2492
Carbon cycle 260, 1107, 1865, 2216, 7345, 7371
systems analysis and simulation 4370, 4371
Carbon in plant physiology 6420
Careers in forestry (*see* Education and training)
Catchment areas 1584, 1772 (*see also* Afforestation, catchment areas)
conferences, symposia 1266, 6072
economics 1268, 5452
hydrology 41, 452, 893, 894, 895, 1266, 1270, 1274, 1773, 1775, 1813, 1858, 2104, 2388, 2391, 2392, 3028, 3029, 3032, 3065, 3337, 3670, 3998, 4290, 4291, 4296, 4297, 4298, 4328, 5048, 5051, 5247, 5447, 5451, 5452, 5453, 5455, 5456, 5457, 6064, 6070, 6072, 6073, 6074, 6080, 6081, 7292, 7293, 7300, 7302
management 452, 893, 1247, 1266, 1273, 1587, 1773, 1783, 1813, 2104, 2389, 2416, 4290, 4299, 4328, 5446, 5453, 5455, 5474, 6072, 6073, 6074, 6075, 7293, 7301, 7302, 7307, 7347
nutrient cycle 1587, 1776, 2391, 5046, 5252, 5446
systems analysis and simulation 1783
Cattle 605, 878, 1781, 2418, 2998, 2999, 3000, 3687, 5012, 6485
Cavities in trees 490, 1311
Central African Republic
forests and forestry 6288
Central African Republic *contd.*
vegetation types 2236
CFS V-blade 1035
Chamois 5443, 6060
Chaparral (*see* Vegetation types, chaparral)
Charcoal 1909, 5103
economics 6347
Chemical constituents of plants, general
analysis 1562, 2722, 4078, 4091, 4706, 6207
biologically active 14, 2284, 5307
genetic aspects 738, 1184, 2868, 4837, 7081, 7083, 7084, 7085, 7092, 7093, 7094, 7100
relation to growth factors 2777, 3407, 3830, 5297, 6463, 6650
sampling methods 3370, 6207
seasonal variation 538, 2608, 2775, 3010, 3371, 3390, 3407, 4078, 4706, 5828, 6890
taxonomic value (*see* Chemotaxonomy)
Chemical constituents of plants, inorganic 1260, 1315, 1956
C 3010
Ca 7052
H 3010
K 7052
major elements 662, 1458, 2655, 2775, 3118, 3371, 6858, 6862, 6866, 7067
Mg 7052
minor elements 2775, 3118, 3371, 4706, 6858
Mn 1126
N 2722, 3010
P 7052
Si 5776, 5820, 7052
Chemical constituents of plants, organic 1160, 1161, 2157, 5837
acetophenones 2284
alcohols 2284
aldehydes 2284
alkaloids 3415, 5299, 5300, 5832
amino acids 1562, 5830, 6401, 6982
anthocyanins 4079
anthraquinones 3416
arginine 1007
azadirachtin 3712
carbohydrates 1562, 2608, 2777, 3407, 5296, 5297, 5353, 5830
carboxylic acids 1007
carotenoids 4714, 5307
chlorophyll 2778, 4595, 4714, 5307
cineole 1060
citrulline 2270
enzymes 4091, 5301
extractives 4927, 6991
fats 4078
fatty acids 3390, 3413, 7238
fatty esters 5834
flavones and flavonoids 1562, 2773, 3418, 5833
furans 5306
glycerides 5829
glycosides 3417, 3418, 5834
hydrocarbons 6660
lignin (*see* Lignin)
limonene 7100
lipids 3390
nucleic acids 5863
palustric acid 3413
pectins 6990
phellandrenes 4986, 7100
phenolic compounds 738, 2776, 2868, 4079, 4927, 7212
phenols 280, 4078
pimaric acids 3413
pinenes 7100
pinifolic acid 3413
polyphenols 1007, 5297, 5830
prostaglandins 4785
proteins 1562, 3541, 6979, 6990
quinic acid 1562
resin acids 3390, 3413
resinols 3418
resins 279, 3818, 6024, 6975
saponins 4079, 5832
shikimic acid 1562
sitosterols 3418
starch 709, 820, 1561, 6463
sterols 5834
sucrose 1956
sugars 1561, 5830, 5835, 6463, 7010

Chemical constituents of plants, organic *contd.*
tannins 1446, 2774, 2872, 5676, 5832, 6980, 6984, 6985, 7212
terpenes and terpenoids 2772, 3413, 3818, 3830, 4079, 4786, 4837, 4986, 5827, 5828, 5931, 6650, 6661, 6981, 6983, 7023, 7084, 7093, 7094
toxins 4193
waxes 4927
Chemical constituents of wood (*see* Wood, chemical constituents)
Chemical utilization of wood 5623
Chemicals, use in forestry 4401
Chemotaxonomy 2868, 3422, 5313, 5828, 6146, 7023, 7096
Chile
credits and subsidies 3175
diseases, tree 4182
education and training 3784
Gayella spp. 5284
land use 3175
legislation 3175
management, forest 3175
Nothofagus spp. 3438
nursery management 4201
palaeoecology 3432
Pinus radiata 4201
plantations 4504
pollen 3432
Sapotaceae 5284
treelines and timberlines 3438
vegetation types 4115, 4116
China
afforestation 5555
agroforestry 1897, 6097
bibliography 509
biological control 868
Cathaya argyrophylla 7027
Cleora cinctaria 3594
Cronartium spp. 2296
Cryptorhynchus lapathi 6012
Cydia coniferana 5994
Dendrolimus spp. 868
D. punctatus 2983
diseases, tree 1203, 1653, 2299, 3511, 4861, 5354, 5369
environmental conservation 7357
Eucalyptus spp. 5555
forest policy 6272
forests and forestry 508, 509, 950, 1897, 3179, 3772, 6272
fuel resources 5119
legislation 3179
mangroves 1594
nature conservation and reserves 7354
Paulownia spp. 1897
Populus spp. 1897, 5594
provenance studies 5594
research 950
Rhyacionia spp. 5398
silviculture 6610
Ulmus spp. 3423
vegetation types 5320
China, Anhui, *Pinus elliottii* 2255
China, Fujian
Cunninghamia lanceolata 6612
diseases, tree 4931
Lymantria xylina 2936
Pinus massoniana 6612
vegetation types 6612
China, Guangdong
fertilizers 6667
minor forest products 6667
plant protection 7254, 7255
propagation 6421
China, Guangxi, bamboos 1447
China, Hebei
afforestation 1976
breeding, tree 7121
diseases, tree 7150
mycorrhiza 7150
reclamation of degraded land 2401
sowing, direct 1976
Ulmus pumila 7121
China, Heilongjiang
Larix spp. 6578
spacing 6578
China, Hubei
minor forest products 6423
propagation 6423
China, Hunan, protection forest 7291
China, Jiangsu, urban and suburban forest(ry) 2107
China, Jiangxi, diseases, tree 4926
China, Ningxia
propagation 6376
Rhus typhina 6376
China, Shaanxi
reclamation of degraded land 7328
sowing, direct 7328
China, Shandong
breeding, tree 7114, 7121
minor forest products 2011
shelterbelts 7291
Ulmus pumila 7121
China, Xizang, diseases, tree 7148
China, Zhejiang
Ceriops tagal 1594
Sassafras tzumu 6633
vegetation types 6633
Chippers/chipping studies
location 3906
work studies 3906
Chlorophyll 694, 2778, 5714
Chlorosis 555, 658, 705, 1186, 1649, 5244, 6850, 6851
Choice of species 85, 492, 1310, 1642, 2621, 3197, 3244, 3350, 3704, 5065, 5141, 5476, 5555, 5588, 5735, 6374
Christmas trees 308, 1648, 2286, 2542, 2635, 3276, 3909, 4206, 5675, 5967, 6444
Chromosome studies 1852, 4144, 5328, 5932, 6158, 7087, 7101
Classification, standard 3711
Cleaning 143, 576, 1030, 1418, 3253, 3254, 5202, 5728, 6567, 6592, 6597
Clear felling, effects 5241
ecological 2376, 2377, 2588, 5031, 5034, 5597, 7289 (*see also* Succession, relation to felling and logging)
erosion 3677, 3678
hydrological 1271, 2386, 2387, 2391, 2700, 3671, 4292, 5264, 5451, 5453, 7302
microclimate 2700
on nutrient cycle 660, 1125, 1508, 2391, 4015, 6537
Clear-felling system (*see* Silvicultural systems and types of felling, clear felling)
Climatology 1459, 1865, 3707 (*see also* Dendrochronology; Dendroclimatology; Microclimatology, micrometeorology)
bioclimatic indices 1153, 3344, 3346
classification of climates 3071
climatic variations 935, 1484, 2081, 4291, 5886, 6807, 7039
conferences, symposia 1108, 4677
study methods 1153, 2079
Climbers 2858, 6120, 6548, 7036, 7066
Climbing devices 6203, 7012
Clogs 5543
Clones 106, 349, 741, 3476
Clothing, working and protective 4403, 5569
Cloud seeding (*see* Precipitation, artificial)
CMEA, measurement systems, units 5685
Codes of practice (*see* Standard)
Collecting, sampling (*see* Specimens and samples, collection)
Colombia
agroforestry 468, 1856
biological control 3578
Catostemma spp. 2788
ecology, forest 299
education and training 3784
insects 3575, 3576, 3577, 3579, 3580
shifting cultivation 1856
vegetation types 299, 4828, 4829
Common Market (*see* European Communities)
Commonwealth, British
associations, societies 2502
conferences, symposia 938
forests and forestry 2502
Communal forest(ry) 505, 507, 1284, 3154, 3768, 5087, 5469, 5580, 6278
Communications (*see also* Roads)
Comoro, education and training 3785
Competition 4652, 7035, 7036 (*see also* Crown, competition; Roots, competition)
effect on growth and form 582, 2643, 6714, 6738
genetic aspects 733
Competition *contd.*
ground vegetation 1963, 3871, 5648, 6096
stand factors 2188, 2642, 2643, 3871, 5520
systems analysis and simulation 4115, 4116
trees and shrubs 4086, 4115, 4116, 6567
Composts 3, 552, 1368, 4467, 5780, 6896
phytotoxic effects 1010, 1375, 5620
Computer techniques 932, 971, 4373
accountancy 6791
age of trees 230
biomass production 6735
breeding, tree 5916, 5930
burning, controlled 1538, 1539
data recording and processing 2458, 5530, 6316
decay in trees 2278, 7154, 7155
defoliation 4372
Dendroctonus frontalis 2955
documentation and information services 5101, 5233
economics, forestry 3991, 6059, 6790
fellings, inventory and control 6210
fire control 1147, 1148, 1149, 2753
fire danger 1536, 2131, 2132, 4726, 6916
fire suppression 4044
grazing and pasture 5023
growing stock 6743
growth and development, plant 230
growth models 238, 2227, 3950, 4616, 5705, 5706, 5707, 5708, 5709, 5710, 5711, 5712, 5713, 5722, 6460
height measurement 3745
increment 233, 2661, 3972
insect pests of trees 3618
inventory, forest 489, 617, 1319, 2065, 2696, 3746, 3969, 3972, 3973, 3974, 3978, 4636, 4638, 4639, 5213, 5227
land use 2459
planning 5528
landscape ecology 7373
light 6682
management, forest 614, 1869, 2056, 2459, 2673, 3302, 3303, 3618, 3965, 4617, 5736, 6215, 6748
mathematical and statistical methods 1321, 1868, 4375
mensuration, forest 1319
nursery management 1961
physiology, plant 5303
planting stock 571
population studies and surveys 2955
regeneration, artificial 1027
remote sensing 244, 3331, 3332, 3333, 3335, 3336, 5231, 6771, 6783
roads, lay-out and planning 5750
seed orchards 1353
shade trees 6682
skidding methods 6218
stand characteristics 1316
statistics, forest 2061
stem analysis 6212
stem form 212
stumpage value and fees 2696
surveying and mapping 3337, 3982, 3983, 4665, 5231, 5529, 6209, 6214, 6771, 6779
synecology 1790
urban and suburban forest(ry) 489, 1310
valuation of forests and land 2696, 6792
volume determination, tree and stand 2025
wood anatomy, general 6960
yield regulation and forecasting 238, 611, 6211
yield tables 239
Concessions and licences 942, 1332, 1888
Cone
abscission 4100
anatomy, morphology 3430
chemistry 3818, 5311, 5921
collection 2561, 3121, 3820, 4426, 5201, 5600, 6318, 6403 (*see also* Seed, collection)
colour 5921, 5977
diseases 990, 4932, 5977
formation and development 539, 702, 991, 1164, 2782, 3121, 5867
handling, processing 539, 2561, 3121, 3818

Cone *contd.*
pests 854, 876, 990, 1245, 1728, 2336, 3583, 3628, 3636, 3643, 3653, 4204, 4211, 4256, 4973, 5010, 5310, 5397, 5399, 7237, 7246
production 743, 2252, 3628, 4100, 4101, 4420, 4428, 5397, 6399, 6408 (*see also* Seed, production)
quantitative measures 4424, 6399
yield of seeds 991, 2336, 3820
Conferences, symposia
Abies spp. 6168
A. alba 1419, 5840
A. balsamea 4366
afforestation 2585, 3228
agroforestry 458, 478, 1799, 2404, 3086, 5483
Alnus rubra 2005
arid zones and deserts 1282, 3090, 4624
Armillaria mellea 1632
avalanches 3035
Azadirachta indica 3712
Bangladesh 2480
biological control 871, 1742, 6550
biomass production 70, 2507, 5131, 5570
birds 884, 1249
botany 6144
bottomland (floodplain) forests 3444
breeding, tree 301, 322, 323, 1180, 1600, 2248, 5918, 6179, 6182, 6183
broadleaved forest 1315
broadleaves 6238
Canada 1322
catchment areas, management 1266, 6072
climatology 1108, 4677
Commonwealth Forestry Conference 938
coppice 6489
Cupressus spp. 152
dead trees 3306
decay in trees 1633
deforestation 4319
dendrochronology 7391
Dendroctonus frontalis 2955
dieback 36
Dipterocarpaceae 3713
diseases, tree 36, 358, 2462, 2877, 4173, 6188, 7145
documentation and information services 6199
ecology 1251, 1584, 1850, 1876
education and training 3182, 3779, 3780, 3781
energy resources 70, 524, 979, 4410, 5102, 6344, 6479
entomology 6179
ergonomics 6478
Eucalyptus spp. 36
extension services 3182
farm forest(ry) 5469
farm woodlands 913, 4319, 4410
fertilizers 6431
fertilizers, application 6441
fire 1527, 1530, 6904
fires, forest 1531, 4753
forest genetics 323, 2248, 6179, 6182, 6183, 6184, 7072
forest roads 6474
forest types 5493
forestry and industry 6301
forest(ry) research 58, 6162, 6194, 6200, 6201, 6202
forests and forestry 1322, 2480, 5538, 6245, 6250, 6284
fuel 1338, 5131, 5573
fuel and power 1863
fuel plantations 2509
fuel production 2507
genetics, plant, general 7080
genetics/breeding 2249
grazing and pasture 2370
Great Britain 6245, 6250
growth models 5705
Heterobasidion annosum 1630, 1631, 1634
history, forest(ry) 6200
hydrology 6072
insect pests of trees 2462, 3556, 3575, 4942, 6189, 6190, 6191
insects 7202
inventory, forest 3308, 4624, 4658, 6167
IUFRO 6161, 6162, 6163, 6179, 6194, 6284, 6473
Conferences, symposia *contd.*
Juniperus occidentalis 2370
land classification 3067, 7380
land use 6072, 6196
landscape 2426
landscape and forestry 1306
logging 450, 6479
management, forest 2413, 2856, 3300, 6164
mangrove forest 3442, 3443
mangroves 2853
mathematical and statistical methods 6197
mechanization in forestry, general 2610, 5193
mining wastelands 7316
mountain forests and forestry 3035, 6475
mycoplasmal diseases of trees 4148, 5378, 6186
mycorrhiza 2268
nematodes 6185
New Zealand 6301
nitrogen cycle 1502
nitrogen fixation 370
nursery management 2, 1951, 1952, 1953, 1954, 1991, 2561
ornamental trees and shrubs 2
pathology, forest 6179
pest control 2457
pesticides, general 6193
pests and diseases 1187
physiology 6179, 6180
Picea spp. 2807
Pinus resinosa 1427
P. strobus 1427
planting stock 1314
pollution 258
pollution, air 2738, 5276, 6187
poplar growing 358
Rangifer tarandus 4284
reclamation of degraded land 7316
recreation, forest 2426, 6195, 6196
regeneration 179, 5173
regeneration, artificial 6476
remote sensing 3330, 3979, 4658, 6167, 6198
resource management 1281
resources, forest 516, 4365
root and butt rots 1629
rust diseases 2901, 3513, 6185
seed 2, 1180, 1354, 5144
silviculture 2002, 3258, 5515, 6357, 6473
soil 3086
soil/plant relations 3714
succession 3424
surveying and mapping 5751
surveys, forest 1866
synecology 2807, 4130
taxation 967
thinning 2610
tissue culture 3209
tropical forests and forestry 220, 1850, 2462, 6165, 6480
Tsuga heterophylla 3113
urban and suburban forest(ry) 3104, 6160
valuation of forests and land 3920
vegetation types 2856, 3030
weed control 1981, 1991
wildlife 1251, 6192, 6367
wood anatomy, general 6951
work studies 6477
yield regulation and forecasting 6166
Congo
mangroves 5892, 5893
vegetational history 5893
Conservation, soil and water 964, 1274, 1334, 1772, 1897, 2389, 2486, 3034, 4323, 4365, 5044, 5045, 5052, 5053, 5058, 5455, 5474, 6258, 7308, 7309
book 449
Consolidation of land holdings 503, 3158, 3160, 4311, 4312, 5565
Contour ridging, trenching and terracing 204, 1403, 5474, 6084
Conversion, silvicultural 564, 5088, 5172, 5272, 6313, 6625, 6653 (*see also* Coppice, conversion)
Cooperage 5543
Cooperatives 2074, 6228, 6280 (*see also* Management, forest, cooperative)
Coppice 76, 78, 4489
biomass production 1460, 2867, 3799
Coppice *contd.*
conferences, symposia 6489
conversion 1966, 2587, 4388, 6362, 6484, 6488, 6570
ecology 300, 5191, 6492
economics 5623, 5624, 6486
increment and yield 1052, 1460, 1965, 5133, 5624, 5726, 6244, 6481, 6490, 6493, 6598
intensive methods 5133, 5134, 5135, 6490
management 75, 1052, 3799, 5191, 6240, 6365, 6481, 6484, 6485, 6492, 7355
silviculture 1432, 4493, 6493, 6598, 6626
soil relations 6492
utilization 587
with standards 1019, 4388
Coppicing 3860, 4483, 4919
control 1992, 2606, 3885, 6547
Cork 1810
Costa Rica
agroforestry 460, 471, 472, 473, 474, 475, 7331
birds 3419
deforestation 1874
environmental conservation 1874
Erythrina poeppigiana 4765
farm forest(ry) 471, 472
hedgerow trees and timber 3058
management, forest 6752
regeneration, natural 7032
research 460
succession 7032
Costs and costing, general 966
Cover crops 7322
Cranes 6649
Credits and subsidies 62, 1892, 3175, 3176, 3181, 3339, 3343, 3691, 3777, 3778, 5098, 5099, 5564, 6313
Crocodiles 1248
Crown
collection of samples from 6203, 7012
competition 3744
damage, general 619, 2083, 2729
dimensions 1065, 2644, 4578, 6814
flora and fauna 2930
form and development 2000, 2083, 2142, 2148, 2758, 4061, 4062, 6701, 6814
measurement 1065, 3288, 6682, 6685
relation to roots 6931
relation to stem form and increment 6151, 6688
systems analysis and simulation 619
weight 2000, 5218
Cruising (*see* Inventory, forest; Surveys, forest)
Cuba
Apate monachus 4234
Pinus caribaea 6619
resin-tapping 6656
Cultivation, soil 1403, 3235, 3841, 5606, 5643, 6539 (*see also* Ploughing; Soil water, effect of tillage)
machines, tools, equipment 5640
Culverts 3024, 3025
Cutting (felling) (*see* Felling)
Cuttings (*see* Planting stock, vegetatively propagated; Propagation, vegetative)
Cytology 2784, 4077, 4780, 7073 (*see also* Chromosome studies)
periodicals and serials 6131
Czechoslovakia
Abies alba 5845, 6171, 6175
afforestation 5468
arboreta 6134
avalanches 3054
Castanea sativa 7112
Cervus elaphus 2835
diseases, tree 2878, 4883, 5402, 5845, 7153
economics, forestry 2850, 2851
Epinotia tedella 7218
flora/check lists 7383
forests, individual 7337
insects 5422
Ips typographus 4238, 6017
labour, forest 6333
land use 7337
Lymantria monacha 1691, 4213
management, forest 2850
mining wastelands 5468
nature conservation and reserves 7337
Neodiprion sertifer 2980

Czechoslovakia *contd.*
nutrient cycle 2838
Operophtera brumata 1741
ornamental trees and shrubs 6416, 7383
periodicals and serials 6134
Phyllaphis fagi 5402
Picea abies 2812, 2825, 2833, 2835, 2836, 2837, 2838, 2839, 2849, 2850, 2851
Pinus sylvestris 6619
planting 2825
pollution, air 2836, 5402
productivity, forest 2816, 2849
protection forest 3054
provenance studies 6175, 7112
Quercus spp. 2155
Scolytidae 4982
snow damage 2833
species trials 6372
thinning 6589
Tortrix viridana 1741
vegetation types 7050
wind damage 2833
work studies 4405
yield tables 3295
Zeiraphera diniana 4212, 4213
Damage, compensation for 665, 4023, 4673, 5754, 6108
Damping-off 165, 789, 2272, 7150
Dams (*see* Reservoirs, ponds and dams)
Data recording and processing 489, 1498, 2197, 2677, 3334, 3658, 3659, 4372, 4374, 5110, 5530, 6211, 6212 (*see also* operation concerned e.g. Inventory, forest, data recording and processing)
computer techniques 2458
inventory, forest 3746
Dead trees 4342, 5242, 7268
conferences, symposia 3306
Deadwood 3306, 3803, 4406, 5242, 5959
Decay fungi 6547
anatomy, morphology 2888
assessment 381, 4873
biology and physiology 2884, 2885, 4875, 4883
control 6454
damage by 5852
data recording and processing 3506
ecology 766, 767, 2286, 2888, 2889, 3501, 3505, 4880, 4882, 4883, 4888, 5346, 5347, 7125, 7158
effect on wood 2330
identification 388, 5346
insects associated with 2970
interaction with fungi or bacteria 2281, 3502, 6116, 7168
physiological effects 2281, 4909
predisposing factors 2945
resistance to 363, 364, 2891, 3506, 4089, 4195
role of wounds 4195
study methods 2891
succession 5959, 7168
taxonomy 4880
Decay in trees 2924, 3125, 7153, 7168 (*see also* Root and butt rots)
assessment 2260, 2275, 3504, 4159, 4160, 5242, 6208, 6745
control 2281, 5488, 6116, 7196
detection 2278, 7154, 7155
economics 2275
identification 1639, 3504, 5347, 7157
predisposing factors 2330, 3593, 4156, 4882, 6655, 7161
prevention/control 7164
resistance to 745, 5940
review 7167
role of wounds 150, 490, 745, 1159, 1549, 1633, 1635, 1999, 2260, 2281, 3703, 4876, 5940, 5958, 6116, 6655, 7164
study methods 1635, 1639, 2278, 6208, 7154, 7155
Decay in wood 5852
anatomical studies 7156
biological processes 1501, 3355
chemical effects 5242
Decayed wood, in nutrient cycle 1501, 4694, 6864
Decorative greenery, wreaths 3908, 6444, 7261
Deer 605
biology 3003, 3004, 5016, 7279
Deer *contd.*
damage by 184, 885, 1765, 2772, 2835, 3012, 3016, 3017, 3471, 3660, 3662, 4078, 5038, 5039, 5444, 5763, 6058, 6059, 6060, 7271, 7272, 7277
ecology, habitat 446, 880, 886, 887, 933, 1326, 1765, 1767, 1853, 2376, 3003, 3004, 3012, 3016, 3019, 3655, 4278, 5016, 7279, 7281
management 184, 1263, 1326, 2418, 3012, 3017, 3655, 3660, 5039, 5444, 7277
protection against 5444, 7272
study methods 3016, 5029
Defects in wood
abnormal heartwood 6897
detection 4656
wetwood 5846, 5848, 5851, 5852
xylem flecks 857
Deficiency, nutrient 3496
B 5786
Fe 555, 658, 5244, 6850, 6851
Mg 5855
minor elements 3721, 6855
Mo 1510, 2726
N 2165
P 5337
S 1510, 2726
Defoliation 417, 697, 812, 1684, 1685, 2337, 2934, 3000, 3398, 3858, 4079, 4200, 4220, 4221, 4372, 4954, 7204, 7205
systems analysis and simulation 7217
Deforestation 484, 500, 936, 941, 942, 1267, 1595, 1858, 1861, 1865, 1871, 1874, 1886, 2497, 2747, 3089, 3149, 3751, 3758, 4118, 4319, 4321, 4322, 4323, 4324, 4695, 5116, 5536, 6074, 6100, 6101
Degraded forest and scrub 514, 1595, 5325, 5436
Demonstration and instruction forests 6323
Dendrochronology 223, 227, 1312, 1842, 1843, 2454, 2728, 3381, 3397, 3706, 3707, 4119, 4356, 4357, 4358, 4565, 4585, 5079, 5080, 5490, 5870, 6011, 6123, 6124, 6125, 6126, 6127, 6669, 7391
book 4361
Italy 3110
Juniperus turkestanica 935
Picea abies 3110
Dendroclimatology 933, 1842, 3705, 4359, 4360, 6127, 6128, 6129, 6130, 7389
Pinus sibirica 4101
systems analysis and simulation 2460
USA, Pacific Northwest 5079
USSR, Siberian region 4101
Dendrology (*see* Silvicultural characters of trees)
Dendrometers 4630, 5684, 6670 (*see also* Angle-count; Diameter/girth, measurement; Height measurement; Mensuration, forest, instruments, multi-purpose; Relascopes)
Denmark
Abies alba 3215, 5858, 6174
A. procera 2542
associations, societies 2501
diseases, tree 5858, 5960
drought 3347
ecology, forest 2101
economics, forestry 2630
fertilizers 3215
forest policy 1890, 2501
forests and forestry 6259
Larix spp. 2866
machines, tools, equipment 1394
Picea abies 6618
Pinus nigra 6390
provenance studies 2542, 5858, 6174, 6389, 6390
Quercus robur 2629, 6389
seed sources 2542
silviculture 2630
soil types 2101
Density of stands (*see* Stand characteristics, density)
Density of wood
measurement 4569, 4570
Pinus sylvestris 4602
relation to site and stand characteristics 213, 1448, 2743, 4143, 6580, 6894, 6899
Density of wood *contd.*
relation to tree characteristics 213, 4143, 4602
variation 213, 1063, 1448, 4143, 6894
Deutz-Intrac skidder 6582
Developing Countries
agroforestry 936
aquaculture 936
charcoal 6347
choice of species 6374
concessions and licences 942
conferences, symposia 1850
credits and subsidies 5098
deforestation 936, 941, 942
development, forestry 504, 936, 2407, 3764, 5098, 6225
ecology 1850, 1862
economics, forestry 1872, 6224
energy resources 5102, 5110, 5130, 6347
environmental conservation 6224
fish 6225
forests and forestry 941, 6220
fuel plantations 6374
fuel resources 1341, 1344, 6347
international aid and collaboration 941
labour 1336
land classification 3073, 3084
land use 1862, 2407
minor forest products 6374
Development, forestry 936, 940, 1055, 1850, 1851, 1870, 1875, 1899, 3159, 3180, 3764, 5067, 5092, 5098, 5469, 5556, 5562, 6225, 6228, 6275, 6280, 6302, 6309, 6364
Diameter/girth
equations 593, 600, 1071, 2016, 2659, 2660, 3926, 4574, 4575, 4631, 5207, 5208, 6151, 6703, 6742
means and distributions 593, 2020, 2646, 3320, 3924, 4567, 4575, 4588, 4612, 4644, 5519, 6686
measurement 1453, 3916, 4631, 6680, 6702, 6703
relation to crown characteristics 2645, 6688
relation to other parameters 602, 2016, 2645, 2659, 2660, 3924, 4574, 5209, 6151
variation with season 236
variation with temperature 236
variation with water supply 236, 601
Dictionaries (*see* Glossaries, dictionaries)
Dieback 36, 37, 38, 39, 40, 41, 165, 175, 278, 1131, 1163, 2106, 2165, 2780, 2781, 3529, 4890, 4892, 4898, 5374, 5963, 5985, 7174
Directories 2267, 4349, 5100
Discoloration in wood 384, 745, 5347, 6208
Diseases, occupational (*see* Health and hygiene)
Diseases of trees, general 4389, 5951
book 1186, 2869, 3478, 5942, 7124
conferences, symposia 358, 2462, 4173, 6188, 7145
control 41, 789, 1188, 1615, 3581, 5941, 5942, 7144, 7146
damage by 905, 1131, 4650, 7144
detection 2687
identification 1207
predisposing factors 40, 1131, 1188, 1649, 1892, 2624, 2834, 3674
resistance to 359, 1029, 4179
study methods 2687
surveys 794, 1163, 1208, 3479, 3585, 4650, 7153
symptoms 2164, 2780, 5381, 7144
systems analysis and simulation 41
Disorders, complex or unidentified 36, 705, 706, 707, 1162, 1186, 1420, 1565, 2163, 2290, 2293, 2779, 2780, 2781, 2848, 2877, 3674, 4096, 4794, 4795, 4796, 4892, 5344, 5840, 5841, 5842, 5843, 5844, 5845, 5846, 5847, 5848, 5849, 5850, 5851, 5852, 5853, 5854, 5855, 5856, 5857, 5858, 5859, 5860, 5964, 5985, 7005, 7007, 7008
Distribution (natural range) 1594, 3433, 5320, 5884, 7024
Abies 6178
Acacia 2805
Alnus 286
Cathaya 7027
Chionanthus 2794

Distribution (natural range) *contd.*
Corylus 7039
Cupressus 154, 155
Dalbergia 1589
Dipterocarpaceae 4108
Eucalyptus 1823
Lauraceae 1590, 1591
Phoradendron 1574
Picea 5882
Populus 6147
Prunus 4120, 5321
Quercus 4816, 5319
Raputia 1572
Documentation and information services 481, 971, 1866, 2500, 3111, 3459, 3658, 3659, 3742, 3754, 5101, 5233, 6199, 6316
Dominican Republic, flora/check lists 4800
Dormancy 21, 704, 996, 2158 (*see also* Seed, dormancy and longevity)
buds 1558
Double 'O' shredder 1438
Drainage, land 2602, 3248
biological 5521
effects 1315, 2844, 3363, 3881, 4525, 5049, 5450, 6543, 6544
machines, tools, equipment 296
Drought 40, 1143, 2105
Drought injury 633, 1110, 2705, 3237, 3347, 3350, 3363, 3366, 4506, 5844
Drought resistance 250, 633, 652, 901, 3350, 3364, 3366, 4016, 4465, 4703, 5278, 5768, 7097
Dunes (*see* Afforestation, sand dunes; Sand dunes)
Earthworms 647, 1993, 4336
Eccentricity, stem (*see* Stem form, eccentricity)
Ecology, animal 1251, 5383, 5907, 7285, 7286
book 5984
Ecology, forest and forestry, general 294, 299, 722, 1252, 1584, 1850, 1856, 1862, 1876, 2167, 2800, 2808, 2809, 3114, 5333, 5886
book 5984, 7037
Ecology, plant 154, 1583, 2186, 2187, 2370, 4765, 4808, 4810, 5907
book 686, 4791, 5881
review 4135
study methods 294
systems analysis and simulation 43
Economics, forestry 48, 1481, 2405, 2695, 5540, 6093
book 2075, 6274
combinations with agriculture 1804, 1805, 1806, 1807, 1817, 5066
combinations with industry 248, 3339, 3340, 3341, 5756, 6788
comparability of enterprises 1101, 2072, 2076
costs and returns 247, 507, 511, 629, 966, 1100, 1101, 1268, 1479, 1482, 1872, 2629, 2630, 2693, 2694, 3552, 3994, 3996, 4485, 4672, 5564, 5755, 5759, 6311, 6327, 6629, 6790, 6793, 6794, 6797, 6798, 7303
data recording and processing 2061, 2699, 6316
forecasts 5755, 6787, 6788
inflation effects 2074, 6789
interrelations with other economic sectors 1324, 1872, 3777, 4331, 4381, 7303
management aspects 57, 629, 1100, 1317, 1466, 1470, 2075, 2850, 3338, 3995, 4669, 4674, 4752, 5094, 5199, 5237, 5496, 5757, 5758, 6243, 6303, 6750, 6784, 6786, 6787, 6795, 6796
multiple use 1320, 1829, 2073, 2417, 3343, 4669, 5094, 6289
political aspects 1324, 2472, 3339, 3340, 3778, 5094, 5097, 5564, 6289, 6294
private forests 57, 1106, 1480, 2693, 2694, 3778, 5236, 5661
public vs. private 52
recreation 1829, 3099, 3101, 4344, 4345
scale of enterprise 5548
silvicultural aspects 129, 180, 1100, 1603, 2041, 2630, 2670, 2851, 3960, 3992, 3995, 4366, 4547, 4554, 5199, 5758, 6571, 6596, 6793, 6794, 6799, 6801, 6802
social aspects 483, 507, 964, 1320, 1797, 1807, 1817, 2441, 2694, 3343, 6294
Economics, forestry *contd.*
systems analysis and simulation 248, 1317, 1320, 1829, 3338, 4671, 4674
theory 2074, 3777, 3994, 4344, 4345, 5760, 6784, 6789, 7375
vs. agriculture 1804, 1805, 1807, 7323
Ecuador
agroforestry 467, 469, 470, 909
reclamation of degraded land 470
Edible plants 5794 (*see also* Fruit, edible; Fruit trees; Fungi, edible; Nuts and nut crops)
Education and training 481, 523, 969, 970, 973, 1308, 1385, 1901, 1903, 2248, 2473, 2503, 3183, 3184, 3782, 3783, 3784, 3785, 3786, 3787, 3789, 3791, 4402, 5100, 5471, 6160, 6318, 6319, 6320 (*see also* Country concerned)
bibliography 1905, 1906
conferences, symposia 3182, 3779, 3780, 3781
Egedal digger 1394
Egypt, street trees 5489
Electrical phenomena in trees 693, 5863
Electricity supplies 932
Elephants 1853
Elk (moose, *Alces***)** 882, 1765, 2376, 3018, 4287, 5035, 5037, 5441, 5718
Elk (wapiti, *Cervus***)** 605, 1765, 3004, 4277, 4278, 5030
Embryo culture 7114
Embryology, plant 1852
Energy relations, plant/environment 1856, 2758, 6903
systems analysis and simulation 4370, 4371
Energy resources 70, 73, 79, 83, 84, 524, 525, 526, 527, 528, 529, 531, 978, 979, 1338, 1863, 1911, 2519, 2520, 2521, 3150, 3190, 3797, 3801, 4409, 4410, 5093, 5102, 5110, 5126, 5130, 5572, 5574, 5580, 6135, 6335, 6346, 6347, 6349, 6350, 6354, 6479
conferences, symposia 6344
Engineering, general 1796
Enrichment (*see* Improvement planting)
Entomology 6179, 7200
Enumeration surveys (*see* Inventory, forest)
Environmental conservation, general 915, 943, 1342, 1874, 2474, 2497, 3081, 3171, 3172, 4319, 4320, 4323, 4325, 4326, 4327, 4329, 4330, 4668, 6105, 6224, 6766, 7037, 7357
book 6102
Enzymes and enzyme activity
in fungi 388, 4856, 5337
in plants 6183, 6184, 6997, 7109 (*see also* Chemical constituents of plants, organic, enzymes)
in soil 4689, 6842
in wood 6986
inhibitors 6988
EPAK trimmer/buncher 2615, 2616
Epidermal structures, plant 2155, 4069, 5875
Epiphytes 2149, 2313
Erosion 898, 1772, 3678, 4018, 6874 (*see also* Clear felling, effects, erosion; Logging, erosion effects; Roads, erosion effects; Streams, erosion and deposition)
control by herbaceous cover 5052, 5055, 7322
control by woody species 4, 1788, 1897, 2393, 3005, 3022, 3669, 5044, 5053, 5054, 5056, 5057, 5058, 5446, 5460, 5462, 6081, 6086, 6093, 6442, 7305
control measures, general 897, 964, 1273, 1334, 1773, 2389, 2482, 2485, 3676, 4301, 5194, 5273, 5474, 6084, 6085, 6087, 7307, 7308, 7309, 7314
review 5461
water 897, 1274, 1787, 2485, 3998, 4048, 5194, 6074, 6080, 6087, 6877, 7304, 7307
wind 2395
Erosion danger, assessment 182, 896, 1861, 6087
Ethiopia
education and training 3787
flora/check lists 5316, 5317
Europe
biomass production 5131
Ceratocystis spp. 4896
Europe *contd.*
Ceratocystis contd.
C. ulmi 7173
Choristoneura murinana 3563
Cupressus spp. 152
dendroclimatology 7389
education and training 3182
environmental degradation 6883
forest site classification 232
fuel plantations 5131
history, forest(ry) 7388
land classification 3083
land use 2430
Lymantria monacha 3558
management, forest 2499
nature conservation and reserves 2422
Panolis flammea 3558
plant protection 4896
recreation, forest 2430
statistics, forest 1893
taxation 2499
Europe, central
apiculture 6666
Ceratocystis fimbriata 4903
forests and forestry 6231
Loranthus europaeus 7198
pollution, air 7198
silviculture 6368
trees and shrubs for 2764
Europe, eastern, vegetation types 2814
Europe, northern
diseases, tree 4863
logging 1074
European Communities
forest ownership 6266
forest policy 2471, 2478
forests and forestry 1329
plantations 72
resources, forest 1329
Evaporation 6077
measurement 5458, 5459
Evapotranspiration 1123, 1772, 2106, 2198, 2199, 4705, 5248, 5782
measurement 3029, 4295, 5247
Evolution 3430, 4108, 5887
Exotics 513, 2466, 2932, 3198, 5383, 5588, 7036
Experimental design 496, 3744
Extension services 55, 481, 974, 1106, 1808, 4326, 4329, 4330
conferences, symposia 3182
Exudation and excretion, plant (*see also* Resins)
Farm woodlands 472, 913, 1313, 1804, 1805, 1810, 2074, 2394, 2420, 2421, 3277, 3690, 4319, 4321, 4323, 4325, 4328, 4330, 4336, 4387, 4410, 5127, 5469, 6098, 6351, 7323, 7348, 7349, 7350, 7351, 7352, 7353
bibliography 1292
Felling
leaning or lodged trees 5653
machines, tools, equipment 1440, 6343
organization 5651, 6602
shears 1440
theoretical studies 3992
work studies 6602
Fellings, inventory and control 6210
Fellings, types of (*see* Silvicultural systems and types of felling)
Fences 3058
Fendt tractor 6647
Ferns 710, 892, 2791, 7052
Fertilization (in plant reproduction) (*see* Pollination, fertilization, (in)compatibility)
Fertilizers
AlFe 7178
ammonium nitrate 999, 1000, 1001, 4453, 4456
ammonium sulphate 999, 1000, 1001
animal products 2594, 3216, 4462
ash 980, 2591, 7324
bark 7324
boric acid 5864
Ca 1971, 2591, 4009, 4444, 7178, 7324
$CaCO_3$ 654
calcium ammonium nitrate 2557, 5162, 6452
calcium nitrate 999, 1000, 1001
CaP 550, 659
Fe 555, 658
'Folifertil' 4463

Fertilizers *contd.*
industrial and town waste 1368
K 556, 4441, 5143, 6445
KCa 554
KMg 6435
Mg 7178
minor elements 2591, 3222, 5257
Mn 555, 705
N, general 109, 115, 980, 1047, 1366, 1718, 2448, 2555, 2556, 2591, 2922, 3142, 3221, 3741, 3839, 4027, 4441, 4443, 4446, 4457, 4551, 4709, 5143, 5155, 5160, 5161, 5329, 5612, 5613, 6443, 6445
N, inorganic 15, 17, 114, 256, 552, 752, 1006, 1367, 1374, 2786, 4451, 4454, 4461, 5616, 6433
N, urea and organic 19, 107, 108, 112, 372, 551, 552, 999, 1000, 1001, 1002, 1003, 1370, 1374, 1948, 2392, 2557, 3214, 3220, 3877, 4453, 4455, 4456, 6431, 6439, 6667, 6857
NK 1943
NKMgS 3257
NP 376, 1005, 1372, 1791, 3212, 3837, 3843, 4458, 6450, 6857
NPCa 553
NPK 4, 109, 110, 111, 114, 548, 555, 560, 654, 705, 924, 1004, 1041, 1127, 1230, 1364, 1369, 1377, 1941, 1942, 1949, 2566, 2874, 3006, 3211, 3213, 3218, 3364, 3842, 3844, 3852, 4428, 4445, 4447, 4448, 5153, 5611, 5615, 5864, 6410, 6433, 6442, 6445, 6446, 6449
NPKCa 7, 1126, 6436
NPKCaMg 3835, 3841, 5159
NPKCaMgS 3222
NPKMg 549, 2873
NPKMgCu 3215, 6444
organic substances 659, 1950 (*see also* Composts)
'Osmocote' 3840
P 378, 550, 1979, 2392, 3214, 4441, 4454, 4457, 5143, 5155, 5329, 6445
patent 4460
PK 1377, 2591, 3043, 6438
PKCaMg 3841
plant products 4460
S 4454, 4457
sewage 7, 1007, 1010, 1375, 1791, 3216, 4442, 4459, 5154, 6448, 6886, 7324
slow/rapid release types 758, 3840, 3870, 5161
'Wuxal' 4463
Fertilizers, application 113, 199, 3730, 3732, 3737, 3739, 4452, 5515
aerial 2392, 2558, 4455
assessment of need for 1946, 3722, 3838, 3849, 6723
combined with other treatments 109, 1002, 1003, 1041, 1365, 1370, 1373, 1417, 1945, 1948, 2209, 3257, 3729, 4451, 4454, 4709, 5159
conferences, symposia 6441
during or before establishment 110, 1041, 1364, 1369, 1943, 2574, 2576, 2591, 3213, 3221, 3729, 3840, 3877, 5161, 6436, 6444, 6446, 6449, 6450
economics 3145, 3838, 4443, 5254, 5613, 6441
effect on abiotic injuries 3043, 3143
effect on bark 1942
effect on disease 381, 2273, 2922, 3210, 5521, 7178
effect on flowering and seeding 4, 1367, 2786, 4428, 5143, 5157, 5158, 5329, 5864, 6410
effect on foliage 1948, 3836, 5611
effect on form 606, 1417, 5156, 6809
effect on hardiness 1380, 3364
effect on mycorrhiza 376, 378, 758, 2266, 2873, 2874, 3210, 3211, 5338, 5615, 5947, 6450, 7133
effect on pests 1230, 1718, 5403, 7223
effect on resin 5329
effect on roots 560, 1406, 3483, 6442
effect on soil organisms 3210, 4462, 6435
effect on stand composition 3143, 4446, 6449
effect on water composition 2392, 3033, 4027, 4442, 4443, 5051, 6872, 6925
effect on weeds 1371, 3143
Fertilizers, application *contd.*
effect on wildlife 4284
effect on wood 3837, 6441, 6445, 6899, 6900
foliar 6667
form and methods 107, 108, 111, 374, 550, 705, 1005, 1006, 1366, 1838, 1973, 3142, 3217, 4443, 4455, 4463, 6440, 6448
leaching, volatilization 999, 4709, 6443
nurseries and nursery stock 110, 115, 1374, 1377, 1378, 1380, 1947, 2566, 2569, 2571, 2573, 2574, 2873, 3211, 3842, 3849, 3852, 4463, 4707, 5162, 6447, 6458, 7133
nutritional physiology 1007, 1127, 1944, 3213, 3214, 3714, 3728, 5615, 6432, 6436
persistence 659, 999, 1943
relation to soil 296, 548, 550, 556, 656, 657, 1374, 1515, 1950, 2555, 2591, 3006, 3214, 3220, 3841, 4442, 4449, 5161, 5521, 5612, 6437, 6448, 6451, 6830, 6857, 7326
study methods 1946, 5617, 6441
systems analysis and simulation 5711
to established stands 107, 108, 112, 549, 551, 1004, 1006, 1366, 1372, 1406, 1941, 2557, 3212, 3214, 3729, 3835, 3838, 3839, 4445, 4447, 4448, 4458, 5161, 5521, 6434, 6436, 6438, 6444, 6723, 6857, 7068
toxic effects 256, 1371, 1375, 6667
Fiji
Armillaria tabescens 4884
breeding, tree 1917
diseases, tree 765
forests and forestry 6226
international aid and collaboration 6226
Pinus caribaea 1917, 2593
P. caribaea hondurensis 1926
planting 1975
provenance studies 1917
seed production 1926
weed control 1989
Financing 3777, 5097
investment policy 1101, 1872, 2405, 3339, 3340, 3341, 6224, 6787, 6803
Finland
Alnus spp. 5877
Aradus cinnamomeus 2935, 4951
Argyresthia laevigatella 1682
Arvicola terrestris 7275, 7276
Betula spp. 5877
B. alba 6679
B. pendula 3807
B. pubescens tortuosa 813, 5866, 6976, 6977
Cerambycidae 833
Corylus avellana 7039
diseases, tree 6855
Epirrita autumnata 813
farm forest(ry) 6351, 7351, 7352
fertilizers 107, 108, 1371, 3043, 3218, 3838, 4284
fires, forest 4736
flora/check lists 5877
forest administration 5761, 6804
forest ownership 1331
forest site classification 7054
forests and forestry 3766, 6254
fuel plantations 980
fuelwood 6351, 7351
Gremmeniella abietina 3534
Heterobasidion annosum 5954
insects 6621, 7237
Ips amitinus 424
labour, forest 68, 6329, 6336, 6343
land classification 3075
Larix spp. 1682
Lophodermella sulcigena 3546, 4180
machines, tools, equipment 6343, 6639
mammals 4284
management, forest 6804
maps, forest 6264
measurement systems, units 5689
minor forest products 3914
Neodiprion sertifer 7240
Oporinia autumnata 6006, 6007
peatlands 980, 2591, 7054
Pinus sylvestris 1563
planting stock 1397
private forest(ry) 3156
Finland *contd.*
provenance studies 3807
Rangifer tarandus 3663
reclamation of degraded land 2591
regeneration 5173
remote sensing 3325
research 6142, 6143, 6254, 6322
Rubus chamaemorus 5865
seed production 3815
silviculture 6369, 6611
soil types 6820
spacing 3241
species trials 6613
statistics, forest 3766
stumpage value and fees 3342
succession 1179
surveys, forest 3323, 6251, 6261, 6262, 6263, 6264, 6265
tending of stands and trees 3253
treelines and timberlines 6611
vegetation types 6820, 7054, 7056, 7057
weed control 6564
wildlife 7274
work studies 6329
yield studies 2015
Fire control, general 673, 1144, 2511, 4723, 5800, 5804, 5805, 5806, 6919, 6921 (*see also* Burning, controlled)
economics 1540, 4724, 4750, 4752, 4755, 5801
education and training 1145, 3394
planning, organization 1526, 1531, 1540, 2129, 2131, 2137, 2753, 3394, 4035, 4037, 4043, 4725, 4727, 4749, 4754
systems analysis and simulation 675, 1147, 1148, 1149, 1528, 1529, 4037, 4043, 6910, 6922
Fire danger 2589
assessment 266, 1143, 1527, 1534, 1535, 1536, 2131, 2132, 2135, 2136, 2751, 4034, 4726, 4729, 4738, 4741, 4745
fuel studies 267, 1116, 1141, 1142, 1533, 2035, 2133, 2134, 2679, 2680, 2681, 3306, 4028, 4031, 4032, 4033, 4034, 4040, 4045, 4058, 4733, 4740, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4756, 4757, 5267, 5268, 5804, 5805, 5806, 5807, 6906, 6915, 6917, 6918
meteorological and seasonal factors 630, 631, 1143, 2079, 2135, 3391, 4029, 4034, 4680, 4728, 5239, 5274, 6914, 6915, 6916
systems analysis and simulation 2135, 4028, 4031, 4032
Fire detection and reporting 1139, 4036, 4739, 5270, 5809
Fire effects 1541, 4126
bibliography 2373
consequential injuries 1562
damage 1546, 3396, 4046, 4731, 4760
ecological 271, 272, 273, 274, 677, 678, 881, 1527, 1542, 1543, 1544, 1545, 1588, 2127, 2128, 2129, 2139, 2373, 2589, 2754, 2755, 3239, 3395, 3947, 4047, 4049, 4050, 4051, 4052, 4053, 4054, 4055, 4059, 4244, 4759, 4823, 4827, 5275, 5407, 5497, 5498, 5515, 5517, 5816, 6495, 6907, 6908, 6909, 7134, 7359, 7370 (*see also* Succession, relation to fire; Synecology, composition of plant communities in relation to, fire; Wildlife, effect of fire)
economic evaluation 881, 4755, 5801
on nutrient cycle 677, 2141, 2589, 3735, 4048, 4056, 5277, 6866, 6992
on soil 677, 2140, 2141, 2589, 4047, 4048, 4054, 4056, 4059, 4695, 5272, 6825, 6851, 6906, 7134
on water composition 2141, 5277, 6925
resistance to 159, 3396
review 4823
systems analysis and simulation 4028, 4760
Fire prevention 674, 676, 2511, 3306, 3393, 4723, 4724, 4725, 4731, 4751, 4752, 4754, 6919
Fire suppression 4036, 4739, 4759
aerial 1146, 1147, 3392, 4044, 4730, 4734, 4755, 4758, 5810, 5811, 5812
chemicals, retardants 676, 4038, 4039, 4044, 4735, 4758, 5269, 6925
equipment, ground 268, 3394, 5813, 6923

Fire suppression *contd.*
organization 1147, 4732, 5810
systems analysis and simulation 4758
water supply 3394
Firebreaks 4042, 5661, 5814, 5815, 6557, 6558, 6924
Fires, forest 4723, 6904
behaviour 1527, 1534, 2080, 2130, 4028, 4040, 4737, 5266, 5799, 5804, 5805, 5806, 5817, 6906
bibliography 5802
book 2750
causes 1527, 1892, 2132, 4030, 4059, 4738, 4739, 5274, 5803, 5808, 6911
conferences, symposia 1531, 4753
data recording and processing 2751, 4040, 4761, 6914
ground fires 4759
history and prehistory 1527, 3395, 3397, 4059, 4118, 4814, 5802, 6905, 6912
recording and mapping 1527, 4030
regulations 4057
research 1527, 1532, 4754, 4761, 4763
smoke studies 672, 4057, 5276
statistics 1138, 1140, 4736, 5803, 6911, 6913
systems analysis and simulation 2130, 2132, 4028, 5266, 5817
Fish 1862, 3085, 5792, 6868
bibliography 7290
biology and ecology 889, 890, 1785, 1786, 1858, 1859, 1860, 2381, 3030, 3666, 5019, 5445, 6053, 6063, 6071, 6867
book 2381
effect of forest operations 890
effect of pesticides 6069
nutrition 2381
pests and diseases 6069
Fish farming (*see* Aquaculture)
Fishing and fishery management 1771, 1858, 1859, 1860, 2412, 6053, 6063, 6064, 6065, 6066, 6067, 6068, 6225
bibliography 5040, 7290
book 447
equipment and methods 3026, 5040
lakes/reservoirs 3665
recreational 3665
rivers/streams 447, 1821, 3024, 3025, 5040, 7289
Flood control 2382, 3667 (*see also* Torrent training)
Flood-plain forests and forestry 2241, 2382, 2383, 2384, 3444, 3667
book 2381
Flooding 4124, 4673, 4901, 5249
review 3367
Flora/check lists 719, 720, 1167, 1581, 1822, 2183, 2184, 2235, 2793, 2795, 2797, 2798, 4107, 4800, 4801, 4802, 4803, 4804, 4805, 5315, 5316, 5317, 5876, 5877, 5878, 5879, 5880, 7029
book 2182, 3109
Flowering 5868
age, season, periodicity 1153, 1566, 1852, 1914, 1935, 2171, 2783, 4060, 4098, 4099, 6665, 7009, 7013
assessment and forecasting 543, 3815, 6409, 7012
induction 283, 1566, 1882, 2172, 2782, 2785, 2786, 4105, 5309, 5861, 6155, 6180, 6232, 6462
physiology 5309, 5861, 5863, 6665
Flowers
abnormal 783, 5862
anatomy, morphology 2171, 2770, 4840, 6971, 7012
formation and development 2171, 5867
pests and diseases 783
quantitative measures 1935, 5868, 7012
Fodder 983, 6047
from foliage, fruits 200, 205, 206, 586, 1061, 1446, 3277, 4767, 5665, 6635, 6662, 6980
from wood etc. 205
Foliage (*see also* Leaf)
analysis 89, 644, 705, 2156, 4078, 4079, 6849
chemistry 16, 2156, 2223, 2773, 2775, 4246, 5204, 6984, 6985 (*see also* Nutrition, plant)
Foliage *contd.*
chemistry *contd.*
inorganic 89, 1000, 1126, 1511, 1522, 2039, 2109, 2655, 3370, 3382, 3835, 3836, 3947, 5836, 6094, 6433, 6723, 6837, 6849
organic 703, 1252, 1562, 1711, 2772, 2872, 3387, 3413, 3541, 4078, 4079, 4595, 4927, 5828, 5830, 6650, 6661, 6975, 6976, 6978, 6979, 6980, 6981, 6990, 7212, 7238
colour and pigments 16, 1601, 7069
diseases and disorders 397, 761, 1033, 1188, 4173, 4174, 4182, 7181, 7185
Acacia 3544
Acer 2877, 4916
Ailanthus 5371
Araucaria 4922
Buchenavia 1201
Bursera 1659
Castanea 1656
Corylus 4919
Cunninghamia 4926, 4931
Cupressaceae 5372
Eucalyptus 395, 784, 3545, 4923, 4924
Juglans 5364
Larix 1661, 7186, 7187
Macadamia 3547
Parrotia 4871
Pinus 1200, 1662, 2308, 2309, 2877, 2919, 3546, 4176, 4177, 4178, 4179, 4180, 4181, 4183, 4184, 4185, 4186, 4187, 4188, 4189, 4190, 4191, 4923, 5366, 5370, 5971, 5973, 7180
Platanus 786, 787, 4923
Populus 360, 393, 1663, 2914, 4928, 7188, 7189, 7194
Protium 4929
Pterocarpus 2303
Quercus 1656, 1657, 4923, 5976
Salix 4923
Shorea 5381
Symplocus 3538
Tectona 4921
Terminalia 788, 1201, 5376
Thespesia 3550
fire relations 2136, 6917
injuries 697
light relations 16, 4083
microflora 395, 748, 1617, 2872, 3480, 3481, 4843
optical characteristics 3986, 5204, 6775, 6778, 7069
pests 872, 1251, 1252, 1253, 1254, 1255, 1256, 1677, 1683, 1914, 2013, 2214, 3582, 4230, 4246, 4257, 5388, 6001, 6976, 6977, 6978, 7187, 7212, 7217, 7238
physical properties 4079, 6935
quantitative measures 1252, 1452, 1684, 2017, 2156, 2214, 2247, 2830, 3284, 3289, 3317, 3913, 3943, 4578, 5695, 6691
relation to increment and biomass 1463, 2039, 2830, 3283, 3947, 4764, 6723
sampling 662, 3317
seasonal behaviour 115, 275, 662, 703, 1252, 1511, 2109, 2709, 4060, 4090, 4136, 4764, 4766, 5976
thermal relations 1097, 4083, 7113
uses and products 206, 1860, 3282, 3913, 4767, 4786, 6661, 6979, 6980, 6984, 6985 (*see also* Decorative greenery, wreaths; Fodder, from foliage, fruits)
water relations 1683, 4793, 5305, 5768, 7170
Forest, indirect values of 7388 (*see also* Amenity value of forests; Recreation, forest)
Forest administration and forest services 63, 940, 1103, 1828, 1903, 2077, 2078, 2674, 2682, 2699, 3769, 4383, 4675, 5761, 6230, 6303, 6784, 6804, 6805
Forest industry
combinations with forestry 946, 1889, 1900, 5560
environmental aspects 6874
New Zealand 6304
Philippines 1900
planning, organization 3304
scale of enterprise 5548
USA 5560
Forest influences on
air composition 258, 260, 1128, 1879, 2747, 2748, 4676, 6878
air movement 2748 (*see also* Wind, effect of shelterbelts)
climate 1136, 4291
erosion 1772, 1787, 2389, 2482, 2485, 3005, 3669, 5044
fauna and flora 4336, 7273
hydrological factors 452, 895, 1270, 1587, 1772, 2104, 2198, 2199, 2389, 2485, 2749, 3028, 3033, 3669, 3673, 3675, 4026, 4290, 4291, 5044, 5265, 5446, 5447, 5458, 5459, 6076, 6079, 6863, 7295, 7297, 7302
microclimate 592, 730, 1524, 2198, 2199, 2748, 6903
noise 6902 (*see also* Noise and its control)
soil 2713, 4004, 4336, 4721, 4722, 5446, 6842
water composition 1269, 1270, 1879, 3673, 3675, 4027, 6082, 6872
Forest ownership 52, 191, 192, 1104, 1106, 1328, 1331, 2473, 3157, 3158, 3773, 5087, 6236, 6237, 6266, 6757
Forest parks (*see* Amenity forests, parks)
Forest policy 52, 948, 962, 963, 1400, 1808, 1875, 1890, 2403, 2471, 2472, 2478, 2501, 3153, 3155, 3161, 3682, 3767, 3769, 4395, 5094, 5105, 5545, 5547, 5550, 5561, 6099, 6222, 6223, 6241, 6272, 6289, 6294, 6296 (*see also* Development, forestry)
Forest statistics (*see* Statistics, forest)
Forest types (*see* Vegetation types)
Forestry
environmental aspects 3094
general textbooks and handbooks 3710, 4362
periodicals and serials 6132
Forests and forestry, general 3750, 3800, 5535, 6221, 6806
Africa, Central 6285
Africa, tropical 5537
America, Central 6293
Australia 6308
Austria 3161
Bangladesh 4378
Belgium 50, 5542, 6233
bibliography 1846, 1847, 1848, 1849
book 6929
Brazil, Amazonia 3088
Canada 2522, 4394, 5582
Canada, Quebec 55
Central African Republic 6288
China 508, 509, 950, 1897, 3179, 3772, 6272
conferences, symposia 6245, 6284
Denmark 6259
Developing Countries 6220
Europe, central 6231
Fiji 6226
Finland 3766, 6254
France 506, 2463, 2464, 5088, 5538, 5542, 5544
Gabon 4393
Gambia 2489
Germany, West 944, 945, 1102, 3157, 3768, 3899, 4380, 5085, 6234, 6257
Ghana 3759
Great Britain 3767, 6228, 6245, 6246, 6250
Great Britain, Scotland 5546
Honduras 6293
India 510, 511, 4390, 6271, 6274
India, Uttar Pradesh 4334
Indonesia 4398, 6273
Irish Republic 6256
Israel 6281
Ivory Coast 6286
Japan 6279, 6284
Japan, Hokkaido 6805
Korea 947
Malaysia 6273
Mediterranean region 1891
Nepal 5491
New Zealand 2409, 2410, 6301
Nigeria 2491
Philippines 4399
Ryukyus 3164
Samoa 6226
Sarawak 4400

Forests and forestry, general *contd.*
Singapore 6273
social aspects 938, 1339, 1846, 1847, 1848, 1849, 1899, 2409, 2410, 3756, 4334, 5085, 5537, 5538, 5542, 5544, 6294, 7361, 7388
Spain 6235
Sweden 1323, 1324, 1325, 1326, 1327, 3177, 3178, 4383, 5086, 6326, 6327
Switzerland 1895, 5551, 6270
Tanzania 5091, 6287
Thailand 2404
Trinidad and Tobago 1898
USA 2695, 5582
USA, California 3166
USA, Florida 959
USA, Hawaii 521
USA, Illinois 6294
USA, Oregon 3229
USSR 49
USSR, European region 3770
USSR, Far East 3771, 4392
USSR, Russian region, Ciscaucasian 4384
Vietnam 2487
Form factors 1454, 2022, 3925, 3927, 4062, 5156, 5693, 5694 (*see also* Stem form, taper)
Fragmentation of land holdings (*see* Consolidation of land holdings)
France
Abies spp. 2234
A. grandis 354
afforestation 5539
Armillaria spp. 4880
biological control 4979
breeding, tree 82, 157, 353, 2467
browse 880
climbers 2858
Cupressus spp. 173
dendroclimatology 6128
diseases, tree 2164, 2907, 2908, 4919, 5372, 7197
drought 2105
economics, forestry 48, 2472, 5540
environmental conservation 3172
Fagus sylvatica 91, 2234
farm forests 2394
fertilizers 113
fire 1588
fire control 4734, 4735
fires, forest 6911
flora/check lists 5878
forest ownership 6755
forest policy 2472, 5545
forest production 5084
forests and forestry 48, 2463, 2464, 5538, 5542, 5544
forests, individual 506, 2423, 2465, 4388, 5088
fuel plantations 72
fuel resources 5129
fungi 2639
Gilletteella cooleyi 4207
Gonipterus scutellatus 7219
grazing and pasture 1588
hedgerow trees and timber 1710
history, forest(ry) 506, 5541, 6755
hydrology 2103
insects 173
Ips sexdentatus 2342
labour, forest 5543
land use 5539
legislation 59, 2498, 3172, 5541
logging 1074
machines, tools, equipment 2009
management, forest 2057, 2464, 2465, 6755
microclimatology, micrometeorology 2126
mining wastelands 2398
minor forest products 5543
mycorrhiza 2266, 3489
nature conservation and reserves 914
nutrient cycle 4014
peatland 2125, 2126
pests, general 1402
Picea abies 1996
Pinus spp. 5084
P. pinaster 5661
pollution, air 3590
private forest(ry) 2057, 2498, 5661
productivity, forest 113
France *contd.*
protection forest 3052
provenance studies 350, 354, 987
Pseudotsuga menziesii 350, 854, 4941
recreation, forest 5542
regeneration 506
remote sensing 622, 2070
research 5129
Rubus spp. 1409
Sacchiphantes abietis 1681
Semanotus laurasi 1710
shelterbelts 2394
silviculture 1429, 6472
soil types 1119
species trials 4416
succession 1588
surveying and mapping 246
surveys, forest 622
Taxus baccata 1174
Thuja plicata 1915
Tortrix viridana 5400
tree surgery 2450
trees and shrubs for 492
urban and suburban forest(ry) 492
vegetation 1173
vegetation types 1119, 1176
Venturia populina 393
weed control 1409
wildlife 880
Zeiraphera diniana 2323, 4216
Freshwater resources 5446
Frost injury 392, 1186, 1489, 1645, 1692, 2085, 3043, 3894, 4000, 4684, 4685, 4687, 4790, 4862, 5765, 5766, 5797, 6180, 6416
Frost resistance 201, 345, 346, 367, 534, 558, 562, 650, 693, 742, 1347, 1642, 1953, 1959, 2085, 3124, 3345, 3348, 3349, 4069, 4465, 4790, 6180, 6232, 6810, 6813, 6871
bibliography 561
review 632
Fruit 2540, 6651 (*see also* Cone; Seed)
anatomy, morphology 688, 1552, 2770, 4109, 5874
chemistry 3823, 6991
edible 4, 1887, 3277, 3823, 3910, 3911, 3912, 4564, 5203, 5862, 7248
shedding 1357, 6117
uses 3277, 4410, 4563
Fruit trees 1852, 1853, 3277, 6632, 7013
Fruiting 2011, 2168, 5329, 7003
Fuel
alcohol 4409
bibliography 982
conferences, symposia 1338, 5131, 5573
economics 1341, 3187, 5575, 6347, 7351
residues 1343, 2520, 3803, 4406, 4409, 6351, 7351
resources 979, 982, 1338, 1340, 1342, 1343, 1344, 1864, 1865, 1909, 2035, 2036, 2513, 2516, 2520, 2521, 3187, 3277, 3794, 3796, 3797, 3798, 3800, 4334, 4406, 5103, 5104, 5105, 5106, 5107, 5108, 5109, 5111, 5112, 5113, 5114, 5115, 5116, 5117, 5118, 5119, 5120, 5121, 5122, 5123, 5124, 5125, 5128, 5129, 5573, 5575, 5576, 5577, 5579, 6305, 6347, 6348, 7351
roundwood 1341, 1909, 2513, 2747, 3187, 3798, 4409, 6347, 6349, 6351, 7351
Fuel plantations 72, 74, 76, 78, 79, 81, 341, 526, 530, 936, 980, 981, 983, 1337, 1339, 1460, 1862, 1864, 2509, 2510, 2512, 2514, 2515, 2516, 2517, 2518, 3761, 3764, 3794, 3795, 3797, 3799, 3802, 3804, 4406, 4407, 5113, 5124, 5127, 5132, 5133, 5134, 5135, 5136, 5137, 5254, 5522, 5571, 5572, 5576, 5580, 6047, 6335, 6346, 6352, 6374, 6520
systems analysis and simulation 4701
Fumigants 385, 2279, 3257, 3499, 4895 (*see also* Fungicides; Insecticides; Soil sterilants)
Fungi
anatomy, morphology 5974
biology and physiology 366, 761, 1655, 2916, 3525, 3527, 4192, 5362, 5365, 5367, 5368, 7149
control 5351
Fungi *contd.*
ecology 748, 749, 756, 761, 1185, 1586, 1616, 1617, 1618, 2100, 2871, 2872, 3480, 3481, 3592, 4843, 4868, 4870, 4948, 5943, 7126, 7127, 7149
edible 210, 873, 1062, 1616, 2639, 2640, 3914, 3915, 5333, 5794, 7126, 7127
effect on wood 384
inhibitors/stimulators in plants 379, 2223, 2284, 4927
inhibitors/stimulators in soil 254, 645
interaction with fungi or bacteria 254, 384, 395, 569, 645, 761, 1658, 5342, 7181
laboratory culture 751, 774, 2309, 4915, 4924, 5351, 7141
physiological effects 395, 1646
role of wounds 761
study methods 774, 1652
taxonomy 1638, 1652, 3529, 3537, 4894, 4924
Fungicides 1735, 1759, 4871, 5369
additives 5979
aluminium ethylphosphite 768
B compounds 7165, 7196
'Bayleton' 4913, 7139
benomyl 168, 169, 385, 397, 1191, 1626, 2304, 2305, 2306, 3498, 3499, 4466, 4936, 4937, 5372, 5963, 5971, 7151, 7174
BHC 5963
Bordeaux mixture 5341
captafol 168, 169, 5978
captan 1659, 3062
carbendazim 774, 775, 776, 777, 778, 1659, 2307, 3498, 4466, 4867, 4869, 5351, 7197
carbon disulphide 2279
chloropicrin 385
chlorothalonil 397, 2305, 2893
copper oxychloride 169
Cu compounds 168, 1659, 4936, 5372, 5979
dazomet 1628
'DD-MENCS' 385
dichlofluanid 168, 169
dodine 169
fenthiuram 4466
'Fundazol' 4466
Hg compounds 1191
iron ammonium metharsenate 3543
mancozeb 1659, 2880, 4869, 5372, 5979, 7174
maneb 397
MBC salts 1643
metalaxyl 8
methyl bromide 385, 2279, 4895
monolaurin 1205
monox 3543
$NaNO_2$ 7196
pyrazophos 5972
quintozene 2880, 4867, 4869
'Santar-SM' 4937
systemic 7197
tetracycline compounds 5379, 5380
thiabendazole 385, 777, 5351, 5978
thiophanate 168, 4466, 7197
thiophanate-methyl 169
thiram 4466
triadimefon 6455
triazines 2893
trichlorphon 5963
vinavil 4937
zineb 1628, 4466
ziram 3498
Fungicides, application 3533
aerial 4918, 7194
effect on soil organisms 4849, 7139
form and methods 768, 775, 776, 2304, 2305, 2306, 2307, 2880, 2893, 4466, 4895, 4911, 5978
persistence 776, 777, 1643, 5380, 5979
study methods 777
surface adhesion 5979
translocation and metabolism 776, 777, 1643
Fungus diseases, general 165, 175, 178, 761, 764, 779, 1186, 1637, 3125, 4861, 5354, 5514
accidental introduction 4863, 7171
assessment 150, 2895, 3500, 4862, 5950, 7188
bibliography 7123

Fungus diseases, general *contd.*
biology and physiology 393, 784, 2285, 2308, 4893
control 860, 2457, 2877, 2922, 3552, 4174, 4466, 4872, 5167, 7174
Ceratocystis 2892, 4896, 4904, 4911
Endothia 2295, 7177
Gremmeniella 7147
Marssonina 7194
Melampsora 5983
Pestalotia 4871
Seiridium 2910, 4936, 4937
damage by 393, 783, 788, 1636, 1648, 4342, 5343, 5950
data recording and processing 4374
ecological aspects 2285, 4174, 4863, 4872
Ceratocystis 4904, 5352
Fusarium 3544
Gremmeniella 4891
Microstoma 4881
Phoma 5371, 5374
Phytophthora 390, 2280
Pseudoplectania 4881
Rosellinia 5953
economics 3552, 5355
effect on increment and yield 2282, 2887, 3534, 7186
forecasting 4912
interaction with fungi or bacteria 569, 1639, 1651, 2279, 2906
interaction with insects 2294, 2887, 3632, 5361, 5402, 5963, 7187
interaction with soil fauna 6502
laboratory culture 2291
physiological effects 1198, 1660, 2273, 3535, 3536, 4928, 5353, 7152
predisposing factors 392, 562, 1653, 2163, 2294, 2881, 2934, 3535, 4538, 4901, 4912, 5355, 5373, 5402
research 391, 780, 1636
resistance to 316, 391, 1653, 2895, 4910, 5966
in *Castanea* 782, 2301, 7177
in *Juglans* 2922
in *Pinus* 771, 2289, 2308, 4851, 7180
in *Populus* 360, 361
in *Pseudotsuga* 382
in *Quercus* 4192, 5956
in *Ulmus* 1194
review 4826
role of wounds 769, 5956
soil-borne infection 2285, 5167
study methods 774
symptoms 2286, 2292, 2917, 3496, 3537, 5374
taxonomy 39, 166, 2918
Fungus diseases of insects 1244, 2334, 3616, 4266, 4991, 6000, 7248
Gabon
forests and forestry 4393
plantations 2598
Galls 1234, 1235, 1681, 1723, 1725, 3591, 4258, 4992, 4993, 5414, 5415, 5416, 7211
Gambia
education and training 3786
forests and forestry 2489
fuel plantations 3794
fuel resources 3794
management, forest 2489
Game birds (*see* Birds)
Gas regime of plants, internal 5303, 5307
review 1525
Genetics, plant, general 101, 102, 3476, 5922, 6930, 7101, 7116, 7183 (*see also* Breeding, tree; Chromosome studies; Hybrids and hybridization; Pollination)
biochemical aspects 317, 333, 343, 355, 731, 738, 740, 1184, 1606, 1852, 2254, 2862, 2868, 4187, 4832, 4837, 5828, 5931, 6183, 6184, 7080, 7081, 7084, 7088, 7089, 7092, 7093, 7094, 7098, 7100, 7109
conferences, symposia 323, 2248, 2249, 6179, 7080
ecological aspects 1605, 2248, 2259, 2526, 2819, 3472, 6880
gene flow in populations 3788, 7088
genetic surveys, gene resources 731, 914, 2248, 3445, 3446, 3458, 5577, 5920, 5938, 6182, 7071, 7072, 7117
inbreeding effects 1613, 7110
Genetics, plant, general *contd.*
inheritance studies 734, 738, 740, 745, 1611, 2253, 2524, 2762, 2895, 3473, 4831, 4835, 4841, 5925, 5927, 5940, 7077, 7078, 7079, 7084, 7102
mutation 103, 7115
physiological aspects 2865, 7074
ploidal effects 547, 5828, 5937, 7114
research 2865, 3459, 4841
review 4141
silvicultural aspects 347, 733
study methods 317, 496, 1605, 1852, 2248, 4141, 4841, 7073, 7098, 7114
variation 309, 543, 1852, 1881, 2865, 2895, 3755, 6958
Abies 5858, 5928
Acer 1358
Alnus 2256, 5934
Betula 688, 2259, 3474
Chamaecyparis 7077
Cryptomeria 7078
Cupressus 170
Eucalyptus 4840
Fraxinus 2740, 5937
Lagerstroemia 2545
Larix 306
Liquidambar 1620
Liriodendron 7111
Picea 736, 2819, 4346, 5926, 7087, 7090, 7091, 7103, 7104
Pinus 314, 353, 1200, 1367, 1601, 2531, 3414, 5278, 5921, 5929, 6184, 7074, 7084, 7087, 7089, 7094, 7099, 7100, 7109
Populus 4085, 4795, 5936, 7113
Pseudotsuga 350, 2526, 3472, 7098
Quercus 1345, 2868, 5935
Ribes 4170
Santalum 4152
Tectona 4145
Tsuga 3128, 4838
Geology (*see also* Soil, parent rock)
Germany, East
Abies alba 2855
breeding, tree 2862
Carulaspis visci 4952
economics, forestry 7375
Fagus sylvatica 2706
fertilizers 1365, 1943, 2392, 2557, 3216, 6434, 6435
fire control 5810
forest site classification 2706, 6740
forests and forestry 6132
history, forest(ry) 2477, 6219
hydrology 2392
Inonotus obliquus 3505
land use 3034
landscape 7375
logging 1410, 1411
machines, tools, equipment 1410, 1769
management, forest 2672, 2673, 3034, 6232
mining wastelands 2724
nursery management 2564, 2582
periodicals and serials 6132
Picea abies 2810, 2823, 2842
Pinus strobus 1425
P. sylvestris 2668
plantations 1031, 5638
pollution, air 1300, 6371, 6871
propagation 2548
provenance studies 2534
Pseudotsuga menziesii 2534, 2627
recreation, forest 1300
regeneration, natural 2823
research 2476, 2477, 6249
resin-tapping 1443, 1445
site preparation 1037
site types 253
snow damage 1487
soil types 2842
stand characteristics 5630
thinning 1410, 1411, 2613, 2614, 2615, 2616, 5670, 6672
vegetation types 2855
weed control 1037, 6551, 6552
wildlife 7272
yield tables 2668, 6740, 6744, 6746
Germany, West
Abies alba 1421, 1422, 2293, 5841, 5842, 5843, 5856, 5857, 6384
A. procera 5190
accidents 3186
Germany, West *contd.*
Adelges spp. 5857
afforestation 2585, 3683
agroforestry 5066
Alnus glutinosa 3242
amenity forests, parks 6108
associations, societies 3158, 3169, 4386, 6255, 6257, 6325
assortments, wood 2653
biological control 1745
birds 1249, 1250, 5032
breeding, tree 3465, 3466, 3469, 3470, 6426, 7070
browse 3471, 7118, 7277
Cervus elaphus 3471
Christmas trees 5675
climate 3999
communal forest(ry) 3154, 3768, 5087
communications 3103
concessions and licences 1888
conferences, symposia 2585, 2877
consolidation of land holdings 3158, 3160, 4311, 4312, 5565
coppice 5191
credits and subsidies 3343
Cristulariella depraedans 4916
deforestation 6101
dendrochronology 4356, 4357, 7391
dendroclimatology 4360
diseases, tree 1192, 1193, 2293, 2311, 5841, 5842, 5843, 5856, 5857, 7008
drought 2705, 3237, 3350
economics, forestry 1106, 2692, 3343, 4381, 4670, 6311, 6571, 7375
education and training 1903, 2473, 3183, 3791, 4402, 6318, 6320
environmental conservation 3103
erosion 7306
Fagus sylvatica 3267, 3268, 3269
farm forest(ry) 3690, 4387, 7349
fertilizers 5616
fire control 3394, 4730, 4732
fires, forest 6911
forest administration 63, 1903, 2077, 2674, 3155, 6230, 6804
forest development 3159
forest ownership 1104, 1106, 2473, 3157, 3158, 5087
forest policy 3155
forest site classification 1113, 1421, 2675, 5715, 6674
forests and forestry 944, 1102, 1104, 1888, 1889, 2473, 3094, 3157, 3768, 3899, 4380, 4381, 5085, 6132, 6234, 6257, 6258
forests, individual 945, 7387
Formica lugubris 1744
fuel plantations 3795
grazing and pasture 5012
Gremmeniella abietina 4891
Heterobasidion annosum 4879, 7162
history, forest(ry) 6219, 6230, 6252, 6257
hunting 5444
hydrology 2390, 2676, 3037, 4700, 6079, 6260, 7297
ice damage 4001
international aid and collaboration 3180, 4382, 4391, 7338
Ips cembrae 7259
I. typographus 2348, 2967, 3652
Juglans regia 2632
labour 63
labour, forest 1903, 3793, 4403, 4404
land use 2390, 3302, 3683, 3684, 3685, 5068, 5754, 6253
landscape 3093, 3103, 3899, 4340, 6229, 6320, 7332, 7343, 7373, 7375, 7376
Larix decidua 3467
legislation 2059, 2443, 2473, 3157, 3169, 4023, 4401, 6230, 7365
logging 1074
management, forest 1105, 2040, 2059, 2473, 2674, 2675, 3302, 3307, 3684, 3685, 5736, 6470, 6804, 7332
maps, forest 3159
mining wastelands 6095, 7313
nature conservation and reserves 2431, 3093, 3094, 3693, 6229
Nectria radicicola 7163
nutrient cycle 2840, 3841
palaeoecology 4357
periodicals and serials 6131, 6132
phenology 6890

Germany, West *contd.*
Picea abies 1351, 2815, 2840, 3809, 3900, 4588, 6579, 6614, 6617
P. glauca 6891
Pinus nigra 2533
Pityogenes chalcographus 3652
plant protection 2997
plantations 3795
planting 2592
planting stock 3237
pollution, air 3379, 3999, 5788, 5856, 6881
pollution, general 665, 4023
Populus spp. 4556, 6387
P. tremula 6628
private forest(ry) 1106, 1892, 4386, 4387, 5089
productivity, forest 3307, 6345
propagation 3468, 5610, 6426
protection forest 5041
provenance studies 1351, 2250, 2311, 3465, 3467, 3809, 5586, 6384
Pseudotsuga menziesii 3246, 4526, 4553, 5586, 6704
Pyrus communis 6632
Quercus robur 3247, 6624
reclamation of degraded land 6095
recreation 2443
recreation, forest 2431, 3697, 4340, 5085, 7365
regeneration 1892
regeneration, natural 3235
remote sensing 3328, 3329
research 3466, 3790, 6315
resources, forest 6324
roadside trees 665
Rupicapra rupicapra 7277
shade trees 2997
silviculture 1048, 1429, 3255, 3256, 3900, 4380, 5625, 7282
Sirex juvencus 852
snow damage 2084, 2815, 3048, 3256, 4001, 4402, 4683, 5763
Sorbus domestica 5192
S. torminalis 3901, 3902
spacing 134, 2815
species trials 6387, 6891
stand characteristics 134, 6674
street trees 4360
stumpage value and fees 2697
surveying and mapping 4665
taxation 5565, 6311
tending of stands and trees 3254, 5657, 6581
thinning 1043, 1044, 1998, 2815, 5185, 5187, 5650, 6571, 6579, 6582
Tilia spp. 2759
T. cordata 2759
trade 1888
urban and suburban forest(ry) 6101, 6260, 7343, 7387
vegetation types 1422, 3937, 4820, 6614, 7050
volume tables 2022
weed control 576, 3888, 6554
wildlife 3661, 5763, 7277, 7282
wind damage 1892, 2815
work studies 1998, 5185, 5187
Xyloterus lineatus 426
yield studies 2040, 3937
Ghana
biological control 6000
book 1592
education and training 3786
forests and forestry 3759
vegetation types 1592
Gibberellins (*see* Growth regulators, gibberellins)
Girdling 851, 2998, 5981, 5982
Girth (*see* Diameter/girth)
Glands, plant 4069, 4070
Glasshouses (*see* Greenhouses)
Glaze (*see* Ice damage)
Glossaries, dictionaries 51, 493, 2456, 4035, 4364, 5316, 5317, 6137, 6919
Goats 3002, 4042, 5018, 5322
Grading and sorting
roundwood 4656, 6671
tree grading 6671, 6681
Grafts, grafting (*see* Propagation, vegetative, grafting)
Grass
competition 1762, 1763, 6551
Grass *contd.*
control 291, 3884
production 1165, 1762, 6927
Grazing and pasture 566, 605, 2370, 2607, 2998, 2999, 3003, 3004, 3007, 3008, 3009, 3062, 3654, 4322, 4625, 5018, 5021, 5022, 5802, 6047, 6049
bibliography 879, 5020, 5025
ecological effects 824, 878, 943, 1326, 1588, 1816, 1818, 2755, 3005, 3011, 5012, 5014, 5015, 5019, 5438, 6050, 6052, 6053, 6054, 6055, 6056, 6057, 6063, 6066, 7294
economic aspects 1809, 1811, 3687
management 878, 1247, 1285, 1326, 1761, 1762, 1763, 1764, 1781, 1810, 1812, 1877, 2127, 2128, 2606, 3006, 4276, 4527, 4860, 5015, 5016, 5017, 5023, 5024, 5026, 5093, 5435, 5436, 5437, 5438, 5526, 6046, 6048, 6052, 6053, 6054, 6056, 6057, 6063, 6365, 6485, 6488
systems analysis and simulation 5023
Great Britain
afforestation 444
amenity forests, parks 6246
arboreta 2453
arboriculture 1835
Armillaria spp. 5349
A. mellea 5962
arthropods 5383
associations, societies 2428
Betula pendula 3475
B. pubescens 3475
bibliography 3163
birds 444
book 6227
botanic gardens 2453
breeding, tree 2257, 4353
broadleaves 6238, 6239, 6240, 6241, 6242, 6243, 6244, 6250, 6801, 6802
Castanea sativa 6626
catchment areas, management 4290
Ceratocystis ulmi 2287, 2892
choice of species 5141
concessions and licences 1332
conferences, symposia 6245
coppice 1019, 6492, 7355
credits and subsidies 3691
deforestation 4118
dendrochronology 5080
development, forestry 504
diseases, tree 1665, 2926, 3529, 3537, 5374, 5953
ecology, forest 1876, 5383
economics, forestry 52, 4331, 6243, 6590, 6801, 6802
education and training 2503
energy resources 73
environmental conservation 2474, 3691
Eucalyptus coccifera 1346
E. nitida 1346
farm forest(ry) 7350
fire control 4724
forest administration 3769
forest ownership 52
forest policy 52, 3682, 3767, 3769, 6241
forests and forestry 1884, 3767, 6228, 6245, 6246, 6250
forests, individual 3163
Fraxinus excelsior 6631
history, forest(ry) 51, 1019, 1330, 2468, 2469, 2474, 2475, 3163, 6227, 6246, 7040
insects 3555
international aid and collaboration 504
labour 2503
land use 3682, 3688, 3767, 3769, 4331, 7334
landscape 2427, 6107
legislation 61, 1332, 3776
management, forest 444, 2474, 6240, 6246
mining wastelands 5062, 5063
national parks 3097, 3776, 6107
nature conservation and reserves 1019, 3692, 3776, 6836, 7355, 7358
ornamental trees and shrubs 3908, 4353
palaeoecology 4118
periodicals and serials 2455, 6141
pests, general 3555
Pinus sylvestris 6713, 6714
planting stock 1401
Great Britain *contd.*
pollen 4118
pollution, air 748
pollution, general 5261
productivity, forest 73, 81
reclamation of degraded land 5062, 5063
recreation, forest 2429
regeneration, natural 1877, 3862
remote sensing 1098, 3986, 6247
research 972, 1876, 3767
roadside trees 407
seed production 284
silviculture 1019, 6240, 6242, 6244, 6801, 6802
Siricidae 851
site preparation 6540
soil types 5778
standard 1401, 3711
surveys, general 1877
thinning 6590
trees and shrubs 1582, 4114, 6227
trees and shrubs for 1346
Ulmus spp. 2287
urban and suburban forest(ry) 1835
vegetation types 6107
vegetational history 2474
wildlife 3664, 3691, 3776
yield studies 5141
yield tables 2055
Great Britain, Scotland
agroforestry 1809
birds 7273
Cephalcia lariciphila 4990
Cervus elaphus 3660
Cinara pilicornis 402
Crumenulopsis sororia 4912
diseases, tree 2909
Elatobium abietinum 402
farm forest(ry) 1809
forests and forestry 5546
grazing and pasture 3687
land use 1809, 5546
Lophodermium seditiosum 4185
mycorrhiza 4153
nematodes 859
nursery management 859, 4185
Pinus sylvestris 3812
seed production 3812
vegetation types 4133
wildlife 7271
Great Britain, Wales
book 6248
catchment areas, management 7347
dendrochronology 6127
dendroclimatology 6127
farm forest(ry) 2421
grazing and pasture 567
hedgerow trees and timber 1834
history, forest(ry) 6248
hydrology 6077
land use 3087, 7347
reclamation of degraded land 3680
regeneration, natural 567
Schizolachnus pineti 5391
Greece
Cupressus sempervirens 176
diseases, tree 176
Elytroderma torres-juanii 4176
energy resources 3188
Ernobius kailidisi 4256
fires, forest 6911
insects 176
Quercus coccifera 6365
Thaumetopoea pityocampa 5428
Green manuring 3219
Greenhouses 1384, 1959, 4093
Ground vegetation 2089, 2645, 2859, 2860, 2935, 4025, 4140, 4830, 5776, 5779, 5915, 6449, 6870, 6915, 7067 (*see also* Competition, ground vegetation)
Groundwater 653, 891, 1114, 1596, 1778, 2106, 2676, 3033, 3360, 3672, 3674, 4700, 5049, 6094, 6543, 6846
Group system (*see* Silvicultural systems and types of felling, group fellings)
Growing stock 596, 6674, 6784
planning and control 251, 1032, 2050, 2675, 3890, 3897, 3977, 3992, 4607, 5626, 5737, 6692
systems analysis and simulation 6743

Growth and development, plant 220, 221, 2147, 2179, 3410, 5705, 5706, 5707, 5708, 5709, 5710, 5712, 5725 (*see also* Increment; Roots, growth and development; Seedlings, growth and development; Shoot growth and morphology)
Growth regulators 1759
ABA 94
abscisic acid 1562, 2160
additives 583, 3208
auxins 94, 280, 1562, 4090
'B-Nine' (B-995) 4435
benzyladenine 583, 1360
benzylaminopurine 3204
chlorflurenol 5838
chlormequat 3227, 5864
coumaric acid 4792
cytokinins 26, 94
daminozide 5838
dikegulac 1042, 5838, 6117
EHPP 5838
ethephon 5838, 6117
ethylene 94, 2159, 2741
fosamine 5838
GA (gibberellic acid) 2786, 3227, 4435, 6394, 6462
gibberellins 26, 94, 283, 583, 993, 1360, 1562, 2172, 2782, 3204, 4090, 4792, 5309, 5861, 5864, 6401
IAA 94, 1360, 1562, 3204, 3205, 3208, 3827, 4094, 4438, 4439, 5864
IBA 1938, 3204, 3205, 3208, 3826, 3827, 4435, 4439, 5151, 6424
indolepropionic acid 3205
inhibitors 94, 280, 3108, 4090
IPA 1938
kinetin 25, 1360, 3204, 4435
maleic hydrazide 1042
mefluidide 5838
mutagens 4088
NAA 25, 1360, 1938, 2786, 3204, 3205, 3208, 5151, 5297, 5838, 6421, 6462
paraquat 5838
physiological role 26, 280, 696, 2160, 2172, 2741, 2785, 4088, 4090, 4094, 4437, 5297, 5838, 5861, 6420
RVU-1 4438
testing 583, 696, 4792
2,4-D 3204, 5297
Growth rings (*see* Rings, growth)
Growth stresses in trees 1135
Guadeloupe, *Hexacolus guyanensis* 2351
Guards, tree 3619, 3701, 3866, 5439, 6503
Guatemala
Cordia alliodora 3460
seed sources 3460
Guiana, French
ecology, forest 7066
hydrology 3065
land use 3065
Pourouma spp. 4799
soil types 2099
Gummosis 6961
Gums 5678, 6659
Guyana, *Pourouma* spp. 4799
Habit of growth 276, 1877, 2064, 2148, 2758, 2760, 2761, 2762, 4060, 4061, 5818, 5927, 6930
Haiti
flora/check lists 4800
fuel resources 5118
Hares (*see* Rabbits and hares)
Health and hygiene 64, 65, 2008, 4345, 5566, 6330, 6333, 6335, 6340
Heartwood 7167, 7168
chemistry 5831, 6986
formation 2159, 6897, 6986
physiology 6986
quantitative measures 1156
Heat resistance of plants 7113
Heathlands (*see also* Vegetation types, heathland)
Hedgerow trees and timber 905, 1710, 1834, 1884
Hedges 3058, 7311
Height classes, height curves 2044, 3283, 3942, 4610, 5216
Height measurement 1449, 3745, 3919, 4632, 6680, 6690
Helicopters 2084, 5811, 5812, 7194
Herbaria 4107, 7021
Herbicides (*see* Weedkillers)
History, forest(ry) 44, 1019, 5095, 6952, 6953
Acacia spp. 2805
Africa 2805
Africa, southern 512, 513
Australia 6310, 6905
Austria 6268
Belgium 50
bibliography 3163
book 51, 1330, 2474, 6248
conferences, symposia 6200
Europe 7388
fires, forest 6905
France 506, 5541, 6755
Germany, East 2477, 6219
Germany, West 6219, 6230, 6252, 6257
Great Britain 51, 1330, 2468, 2469, 2474, 2475, 3163, 6227, 6246, 7040
Great Britain, Wales 6248
inventory, forest 3765
Iran 6282
Italy 2470, 3765, 4119, 6267
legislation 5541
management, forest 6755
Mediterranean region 1886
Netherlands 1887
plantations, general 513
Sweden 1323, 1324, 1325, 1327
Switzerland 499, 2669
USA 2494
USA, Alaska 2493
USA, Nevada 2496
USA, Pacific Northwest 2495
USSR 502
USSR, Russian region, central 5090
USSR, Russian region, Urals etc. 5890
Yugoslavia 3765
Holder tractor 1995
Honduras
catchment areas, management 2416
Cordia alliodora 3460
development, forestry 1875
erosion 2416
forest policy 1875
forests and forestry 6293
seed production 6404
seed sources 3460
Honeydew 207, 590, 5682, 6666
Hong Kong
flora/check lists 4804, 4805
trees and shrubs 4804, 4805
Horse-riding 7365
Humus, incorporated (*see* Soil chemistry, organic)
Humus, surface
accumulation 2713
chemistry and nutrient relations 2711, 3353, 3358, 3725, 3726, 4004, 4014, 6822, 6823, 6826, 6828, 6864
classification, types 2718, 3353, 3358, 6834
decomposition 4693, 6435, 6826, 6830, 6857, 6861
effect of fire 4693
flora and fauna 645, 2718
moisture relations 1116, 3358
soil/vegetation relations 1118, 1119, 2713, 4004, 6822, 6826, 6828, 6830
study methods 3353, 3358
thermal relations 1116
Hungary
bibliography 7050
choice of species 5735
conifers 2622
diseases, tree 5377, 5972
erosion 2395
Hyphantria cunea 6009
irrigated stands 5798
Juglans regia 5377
Leucoma salicis 7251
management, forest 5626, 5735
nursery management 5972
pollution, air 5796
research 5626
shelterbelts 2395
silviculture 5626
tending of stands and trees 5728
thinning 6587
vegetation types 7050
weed control 5647
yield tables 5728, 5734
Hunting 917, 3017, 3173, 3655, 5444, 7277
Hybrids and hybridization 303, 313, 356, 731, 737, 986, 1612, 2251, 2866, 2868, 3449, 4833, 4837, 4842, 5589, 5590, 5866, 5938, 6182, 6377, 7107
Hydrology 2103, 4295, 4705, 5042, 5043, 5265, 5458, 5459, 6863, 7295
analysis and synthesis of hydrographic data 451, 894, 1178, 3032, 3669, 4124
conferences, symposia 6072
land-use aspects 1267, 1271, 1798, 1855, 2390, 2676, 2845, 2846, 3065, 3673, 3758, 4701, 5048, 5447, 5449, 6073, 6074, 6079, 6260, 6872, 7299, 7302
research 3674, 6077
review 5454
study methods 1267, 1498, 1798, 3351, 7298
systems analysis and simulation 3668, 4370, 4371, 4701, 5449, 5450
Hymenomycetes 2970
Hypsometers (*see* Height measurement)
Ice, thawing or thickening treatments 1517
Ice damage 1486, 1517, 4001
Improvement fellings 1853, 3230, 7363
Improvement planting 2040, 3268, 4001, 4787, 5680, 6663 (*see also* Underplanting)
Increment 1075, 2727, 5663, 5716, 6261, 6262
basal area 234, 603, 1001, 1997, 2620, 3344, 3922, 3926, 4124, 4611, 5729, 5733, 6699
diameter/girth 109, 231, 236, 601, 602, 606, 648, 1077, 1459, 1997, 2033, 2042, 2049, 2105, 2658, 2660, 2728, 3889, 3922, 3941, 3955, 4124, 4221, 4416, 4535, 4593, 4597, 4598, 4599, 4613, 5220, 5721, 5722, 6372, 6699, 6701, 6702, 6703, 6731, 6732, 6733, 6734, 6738, 6742
equations 602, 1072, 1073, 1077, 2033, 2045, 2660, 2664, 3749, 3889, 3939, 3942, 3949, 3952, 3961, 4601, 4603, 4604, 4605, 5717, 5733, 6713, 6714, 6742
forecasting 1072, 1073, 2045, 2460, 2664, 3311, 3926, 3939, 3949, 4603, 4604, 4605, 4616, 5520, 5733, 6738, 6742
form 6701
height 231, 353, 1001, 1072, 1073, 1081, 1082, 1425, 1457, 1462, 1956, 2044, 2045, 2049, 2105, 2147, 2253, 2620, 2623, 2658, 2660, 3377, 3810, 3850, 3889, 3922, 3934, 3935, 3936, 3942, 3952, 3955, 4444, 4535, 4613, 5520, 5722, 5765, 6372, 6701, 6713, 6714, 6732, 6733, 6734, 6846, 6887
in very young stands 1078, 1460, 1997
methods of determining 235, 2661, 2729, 2731, 3705, 3972, 5220, 5520, 5720, 6212, 6669, 6699
systems analysis and simulation 233, 234, 1815, 2033, 2227, 2460, 3311, 3942, 3950, 4616, 5722, 6460
theory 2758, 5717
value 2697, 4602, 5735, 6747
variations 236, 606, 1459, 2047, 2253, 3377, 3960, 4124, 4360, 5702, 5721, 5886, 6295, 6713, 6714, 6807
volume 109, 602, 603, 1001, 2817, 3377, 3937, 3941, 3949, 3972, 4065, 4505, 4598, 4604, 4605, 5702, 5735, 6595, 6622, 6705, 6731, 6732, 6733, 6734, 6846
weight 1460, 1997, 3749, 4601, 5702, 5722, 6705
Increment boring, cores 235, 2660, 3948, 4565, 6669
Increment tables 2817, 4600
India
Acacia planifrons 6106
A. tortilis 3060
agroforestry 5469
bamboos 6149
Bambuseae 4113
breeding, tree 3477, 3755
Bruguiera spp. 2792
communal forest(ry) 5469
conferences, symposia 6144
development, forestry 5469

India *contd.*
diseases, tree 1637, 3479, 3547, 4149, 4929, 4935, 5368, 5371, 5376, 5951, 7190, 7193
economics, forestry 511, 2405, 6274
education and training 3783
Elephas maximus 1853
energy resources 5580
farm forest(ry) 5127, 5469
fishing and fishery management 1858, 1859, 1862
forest site classification 1087
forests and forestry 510, 511, 4390, 6271, 6274
fuel plantations 5127, 5580
fuel resources 5119
fungi 4870
Grewia oppositifolia 6662
labour, forest 2504
Lagerstroemia parviflora 2545
land use 510, 1855, 2405, 2415, 5580
limnology 1859
mangroves 5895
medicinal plants 5204
mining wastelands 5466
minor forest products 1061
mycorrhiza 5946
nature conservation and reserves 1853
nursery management 5341
Odontotermes spp. 5389
periodicals and serials 3112
Populus spp. 3479, 6147
provenance studies 3192
reclamation of degraded land 5466
rural economy 1855
Santalum album 5341
seed sources 3192
Simmondsia chinensis 5677
soil types 1791
statistics, forest 5553
timbers 6277
vegetation types 1851
vegetational history 5895
yield tables 1087
India, Andaman and Nicobar Islands
Areca spp. 4121
Cocos nucifera 4121
India, Andhra Pradesh, shelterbelts 1275
India, Arunachal Pradesh
minor forest products 4563
Pinus bhutanica 7026
Skimmia laureola 4563
India, Assam
mycorrhiza 5335
national parks 1853
Rhinoceros unicornis 1853
shifting cultivation 7342
India, Bihar
agroforestry 3066
Kerria lacca 588
Ougeinia oojeinensis 1077
volume tables 1069
yield tables 1069
India, Chandigarh, grazing and pasture 6049
India, Gujarat
communal forest(ry) 6278
economics, forestry 3996
Eucalyptus 'Mysore hybrid' 3996
nature conservation and reserves 4279
vegetation 4129
vegetation types 4819, 5324
wildlife 4279
India, Himachal Pradesh
diseases, tree 4164
Lymantria obfuscata 1218
resin-tapping 1059
soil survey 6828
India, Jammu and Kashmir
fuel plantations 4407
vegetation types 6157
India, Karnataka
Batocera rufomaculata 2956
Cryptocarya wightiana 6703
diseases, tree 2879, 3551
Eucalyptus 'Mysore hybrid' 1490
Lannea coromandelica 6702
minor forest products 1054
Pinus kesiya 5304
soil types 1490
Vitex altissima 6702
volume tables 597, 5698
India, Kerala
agroforestry 2406
diseases, tree 3545
Pteroma plagiophleps 2938
regeneration, natural 1969
Tectona grandis 1969
termites 4949
India, Madhya Pradesh
diseases, tree 4921
ecology, forest 1583
education and training 523
farm forest(ry) 4333
forest administration 1103
labour, forest 523
land use 4333
vegetation types 5325, 7049
India, Maharashtra
diseases, tree 3550
pollution, air 1857
India, Meghalaya
erosion 898
mycorrhiza 4858
nutrient cycle 5777
Schima spp. 2544
shifting cultivation 898
India, Nagaland, diseases, tree 4930
India, northern
afforestation 2599, 5633
fungi 4868
India, Orissa
nematodes 1236
volume tables 1069
yield tables 1069
India, Punjab, fungi 4888
India, Rajasthan
afforestation 7314
erosion 7314
species trials 2527
termites 1679, 7208
India, Tamil Nadu
Acacia melanoxylon 5665
Crocodylus palustris 1248
diseases, tree 1162
hydrology 1778
mangroves 5896
mycorrhiza 4847
pollen 5896
protection forest 1264
regeneration, natural 1022
vegetation types 729
vegetational history 5896
wildlife 1248
working plans 4618
India, Tripura, termites 796
India, Uttar Pradesh
diseases, tree 4164, 4922, 5381
erosion 1334, 5052
Eucalyptus 'Mysore hybrid' 2594
E. tereticornis 2594
fertilizers 2594
forests and forestry 4334
fuel plantations 6047
fuel resources 4334
grazing and pasture 6047
hydrology 1777, 4295, 7296
insects 1228
labour 1334
land use 4334, 6047
Macaca mulatta 4285
nutrient cycle 1776, 2043
Pinus spp. 1920
P. roxburghii 1068, 1088, 2043, 6927
productivity, forest 1076, 2043
propagation 1937
provenance studies 1920
remote sensing 5234
seed production 6395
soil types 1491
spacing 2594
Tectona grandis 1458
termites 3589
Trewia nudiflora 2647
vegetation types 4139
volume tables 1067, 1068, 1069, 2647
weight tables 1067
wildlife 4285
yield studies 1088
yield tables 1069
India, West Bengal
Anthocephalus chinensis 2054
diseases, tree 4150
fires, forest 2140
fuelwood 983
India, West Bengal *contd.*
fungi 7125
mangroves 7125
nursery management 1012
nutrient cycle 2711
palaeoecology 7041
Populus gamblei 1012
roadside trees 4150
soil types 2707
species trials 983
weed control 1990
yield tables 2054
Indicators, plant 43, 1153, 3654, 4125, 5779, 5796
Indonesia
Acacia auriculiformis 6627
afforestation 5477
agroforestry 1856, 3764, 5471, 5472, 5473, 5474, 5476, 5478, 5479, 5480, 5481
arboreta 4070
deforestation 1595, 2497, 3089
development, forestry 1899, 3764
diseases, tree 3499, 3510
education and training 3782, 3783, 5471
environmental conservation 2497
Euphorbiaceae 1581
fertilizers 110, 5478
forest industry 6273
forests and forestry 3764, 4398, 6273
insects 2346
labour, forest 5474
land use 5472
landscape 1860
logging damage 3941, 4017, 4337
logging waste 3089
mangroves 1595
meteorology 1856
minor forest products 5475
nature conservation and reserves 2497, 4337
regeneration 1964
resources, forest 4398
secondary or cut-over forest 1169, 3089, 3941
seed production 3817
soil types 110, 5914
species trials 5477
stand characteristics 4128
surveying and mapping 1595
trees and shrubs for 5476
vegetation types 1595, 1860, 4017, 4128, 5914
virgin forest 3941, 4128
yield studies 3941
Information services (*see* Documentation and information services)
Inheritance (*see* Genetics, plant, general, inheritance studies)
Injection of trees 141, 1042, 1204, 1643, 1837, 1838, 2997, 3217
Insect pests of trees 176, 773, 794, 795, 3126, 4203, 4389 (*see also* Bark beetles; Borers, wood)
accidental introduction 1210, 7219
attractants 413, 1728, 2940, 2941, 3573, 3630, 4947, 4959, 4962, 4987, 4988, 4989, 5992, 5995
disparlure 804, 809, 1216, 2321, 4209, 4213
dodecadienol 802
dodecenyl acetate 4212, 4213, 5419
pentadecenol acetate 6025
tetradecenal 3640, 4976, 5991, 6039
tetradecenyl acetate 5991
bibliography 2976, 3582, 4219
biology and ecology 792, 798, 1253, 2316, 2930, 2933, 3555, 3579, 3580, 3608, 3617, 4947, 4948, 5383, 5386, 7199, 7202
Col. 418, 419, 825, 835, 1224, 1227, 1229, 1710, 2326, 2338, 2344, 3626, 3632, 4230, 4242, 4256, 4260, 4981, 4983, 4985, 6017, 7222, 7231
Dipt. 1235, 2977, 5416, 7249
Hem. 402, 1212, 1213, 2319, 2935, 3590, 3591, 4205, 4207, 4260, 5390, 5391, 5990
Hym. 433, 848, 852, 854, 855, 1234, 1727, 2971, 2975, 3633, 3634, 3635, 4258, 4260, 5412, 5413, 7241
Isopt. 1680

Insect pests of trees *contd.*
biology and ecology *contd.*
Lep. 407, 409, 414, 415, 416, 800, 801, 806, 821, 1217, 1218, 1219, 1220, 1682, 1686, 1691, 1692, 1707, 2320, 2326, 2329, 2333, 2936, 2939, 2943, 2944, 2947, 2948, 2949, 2950, 2951, 3594, 3595, 3600, 3601, 3605, 4963, 4972, 5388, 5395, 5396, 5399, 5401, 5993, 6005, 6006, 7216, 7218
book 3584, 4939, 4940, 7124, 7199, 7239
conferences, symposia 2462, 3556, 3575, 4942, 6189, 6190, 6191
control 185, 437, 801, 860, 863, 867, 869, 871, 1710, 1733, 1753, 2121, 2315, 2457, 2954, 2968, 2984, 2987, 3105, 3576, 3577, 3579, 3580, 4263, 4945, 4947, 5511, 5941, 7199, 7200, 7202, 7206 (*see also* Biological control, insect pests)
by Col. 421, 1243, 2357, 6045
by Dipt. 2357, 7257
by fungi 1739
by Hym. 412, 434, 853, 2352, 3598, 3641, 4265
by Protozoa 4217
of Col. 421, 427, 842, 845, 1228, 1243, 1739, 2322, 2347, 2352, 2964, 2965, 2988, 3653, 5011, 5421, 5433, 6012, 6032, 6043, 6045, 6657, 7222, 7231
of Dipt. 4993, 5414, 5415, 5421, 7246, 7249
of Hem. 1212, 2997, 3592, 3643, 3653, 4206, 5393, 5988, 6034, 6040, 7260, 7261
of Hym. 434, 439, 853, 1211, 1238, 1737, 2974, 2980, 2985, 2994, 3635, 4259, 6027, 6033, 7240
of Isopt. 1680
of Lep. 412, 438, 443, 800, 823, 861, 862, 866, 868, 1211, 1216, 1240, 1244, 1687, 1688, 1703, 1704, 1730, 1731, 1732, 1740, 1741, 1754, 1755, 2322, 2324, 2356, 2357, 2358, 2360, 2361, 2362, 2365, 2369, 2936, 2943, 2981, 2982, 2986, 2988, 2989, 2990, 2991, 2992, 2995, 3578, 3581, 3594, 3596, 3597, 3598, 3614, 3618, 3640, 3641, 3643, 3644, 3645, 3646, 3650, 3651, 3653, 4209, 4214, 4217, 4224, 4262, 4265, 4268, 4271, 4366, 4955, 4966, 4975, 4997, 5000, 5001, 5002, 5010, 5384, 5396, 5418, 5420, 5421, 5428, 5429, 5430, 5432, 5994, 6031, 6037, 6038, 6041, 7214, 7251, 7252, 7254, 7255, 7256, 7257
damage by 185, 437, 1131, 1210, 1677, 2314, 2316, 2683, 2934, 3239, 3306, 3398, 4200, 4372, 4650, 4944, 5511, 5986, 5987, 6005, 6621, 7199, 7201, 7206
Col. 2618, 3894, 4156, 4242, 4256, 5387, 6019
Dipt. 857, 6972
Hem. 172, 403, 404, 1212, 3593, 4206, 4207, 5387, 5393, 5857, 5989, 7209
Hym. 435, 436, 850, 2214, 2973, 3635, 4257, 5412, 6026
Lep. 172, 410, 415, 417, 812, 813, 820, 850, 1684, 1685, 1688, 1690, 1692, 1699, 1701, 1705, 1709, 1729, 2214, 2323, 2330, 2335, 2336, 2337, 2357, 2938, 2945, 2950, 2954, 3586, 3604, 3606, 3613, 3615, 3616, 3619, 4079, 4156, 4218, 4366, 4954, 4960, 4965, 4968, 4971, 4973, 5010, 5174, 5387, 6007, 6010, 7213, 7217, 7218, 7281, 7390
data recording and processing 403, 3320, 4372, 4374
detection 2968, 2969, 4943, 7215
dispersal 845, 2325, 3556, 3560, 3561, 3562, 3563, 3564, 3565, 3572, 3573, 4958, 5400
distribution maps 1702
economics 164, 185, 1211, 4263, 4944
effect on increment and yield 404, 2115, 2215, 4227, 4967
effect on succession 7281
feeding inhibitors 1711, 1724
feeding stimulants 1683
Insect pests of trees *contd.*
forecasting 417, 425, 1210, 1214, 1695, 1696, 1697, 1700, 4216, 5998, 6004, 7227, 7228
fungal associates 770, 825, 2294, 2349, 2883, 2970, 2971, 4260, 4948
hormone treatments 2364, 2992, 4264, 4271, 4947, 4955, 5384, 5405, 5429
host relations 399, 401, 410, 433, 803, 810, 814, 849, 856, 1681, 1711, 1716, 1727, 2325, 2338, 2931, 2932, 2933, 2944, 2957, 3582, 3605, 3626, 3636, 3642, 4246, 4253, 4963, 4967, 4980, 5343, 5397, 5423, 5999, 6020, 7224, 7237
identification 174, 808, 1207, 1228, 1673, 1694, 3608, 6019
laboratory rearing 4956
parasites and predators 798
of Col. 420, 4979, 6022
of Dipt. 4261
of Hem. 4951, 5391, 5422, 7210
of Hym. 1722, 2972, 2974, 3635, 5423
of Lep. 405, 411, 801, 1698, 1723, 2357, 2358, 2937, 2953, 2981, 2982, 3602, 3603, 3612, 4210, 4215, 4222, 4972, 4975, 5394, 5399, 6002
pathology 846, 4961, 5988
physiological effects 820, 7211, 7212
physiology 803, 814, 849, 5999
population studies and surveys 399, 793, 804, 816, 1208, 1883, 2931, 3560, 3585, 3599, 4216, 4226, 4943, 4944, 7204, 7205
Col. 3628, 4254, 6022
Hem. 39, 799, 2317, 2935, 3587, 4208, 5392
Hym. 1722, 7237
Lep. 416, 818, 822, 1214, 1215, 1693, 1704, 1706, 2321, 2323, 2327, 2334, 2939, 2940, 3558, 3564, 3607, 3609, 3610, 3611, 4212, 4224, 4964, 4977, 5400, 5997, 6001, 6003, 6009, 6204, 6205
predisposing factors 1222, 1226, 1608, 1708, 1892, 2114, 2115, 2625, 2834, 2887, 3619
repellent pheromones 1715, 6032
research 2349
resistance to 432, 811, 844, 851, 1222, 1608, 1681, 1683, 2318, 3563, 5986, 5999, 6014, 6024, 7213, 7225
review 173, 437, 1209
secondary pests 1690, 1720, 2163, 3376, 3631, 5985, 7220
study methods 403, 816, 1704, 2946, 3609, 4218, 4938, 5997, 6001, 6003, 6204, 6205
systems analysis and simulation 844, 847, 1708, 2324, 2345, 3560, 3561, 3614, 4208, 4944, 5385
taxonomy 805, 4970, 5398, 7239
trapping 408, 413, 804, 817, 845, 863, 1672, 1691, 1728, 2940, 2965, 2983, 3558, 3595, 3610, 3630, 4962, 4992, 4993, 5400, 6039, 7215
vectors of disease 858, 4150, 4935, 6188, 7222
Insecticides 1735, 1759, 2366
acephate 440, 819, 866, 1242, 1732, 2121, 2322, 2929, 2981, 2991, 3644, 4206, 4268, 4273, 4275, 4283, 5010, 5011, 5414
additives 1756, 4270, 5007, 5427
aldicarb 2995, 2997, 5433, 7261
aldrin 1679, 4949
aminocarb 440, 443, 815, 1755, 1756, 1757, 2361, 2362, 2369, 2981, 2982, 3651, 4955, 5007, 5790, 5791, 7280
azamethiphos 5430
azinphosmethyl 876, 1245, 3643
bacterial preparations 438, 800, 823, 861, 866, 867, 1237, 1241, 1242, 1730, 1731, 1732, 2322, 2943, 2981, 2984, 3581, 3639, 4214, 4272, 4946, 4997, 4999, 5000, 5001, 5418, 5428, 6031, 6037, 6044, 7251, 7252
BHC 873, 2936, 3594, 4949, 5994, 7206
book 2604
'BPMC' 5414
bufencarb 5414
cacodylic acid 2996
Insecticides *contd.*
carbaryl 440, 1228, 1242, 2363, 3649, 4021, 4268, 4283, 4975, 4999, 5006, 5415, 5431, 5434, 5790
carbofuran 876, 1221, 1245, 2995, 3643, 3646, 3653
carbophenothion 4267
chlordane 4949
chlorpyrifos 819, 2329, 2367, 2929, 3647, 3649, 4206, 4268, 5432, 5434, 5790, 7206, 7260
chlorpyrifos-methyl 440, 3647, 4267, 4269, 5434, 5790, 7260
'CKE-1300' 4952
DDT 647, 873, 2936, 3645, 5001, 5790
'Decis' 5432
diazinon 866, 2995, 4268, 5433, 7206
dichlorvos 2936, 3594, 6039, 6043
dieldrin 873, 1229, 2245, 5001
diflubenzuron 1242, 1703, 2322, 2358, 2364, 2984, 4271, 4283, 4955, 5001, 5384, 5405, 5428, 6038
difluron 3278
dimethoate 819, 2995, 3637, 4206, 4268, 5415, 6040, 7246
'Dipel' 866, 1242
disulfoton 5433
endosulfan 2929, 2997, 5433
endrin 5790
ethylene dibromide 2966
etrimfos 4267, 5432
'Fekama AT-25' 7251
fenitrothion 443, 815, 875, 1752, 1755, 1760, 2363, 2966, 2981, 3651, 4267, 4711, 4999, 5007, 5008, 5009, 5415, 5427, 5432, 5790, 6041, 6657, 7218, 7280
fenthion 2966, 4268
formothion 3637, 5432
fuel oil 843
'Gomelin' 2984
heptachlor 2994, 4949, 5001
inorganic salts 2985
isoprocarb 5414
lindane 1752, 2329, 2929, 3647, 3649, 4267, 4269, 5001, 5432, 5434, 6657, 7260, 7261
malathion 866, 1228, 2363, 2995, 4268, 5432
methamidophos 5010, 5393
methomyl 440
methoxychlor 2929, 5432
mexacarbate 440, 2995, 3645, 4274
monocrotophos 2956, 5414
omethoate 5414, 5415
organo-phosphorus preparations 5001, 5008
oxydemeton-methyl 2995, 2997, 6191
parathion-methyl 4952, 5790
permethrin 440, 1754, 2360, 2363, 4268, 5790, 7258, 7260, 7280
petroleum oils 865
phenolic compounds 7253
phorate 2995, 3257
phosalone 5415
phosmet 2363, 4267, 6657
phosphamidon 443, 815, 5790
pirimicarb 4206
pirimiphos-ethyl 4267
pirimiphos-methyl 5432
plant products 441, 3712
propoxur 6043, 7261
pyrethrins 1245, 3645, 5001, 5432, 7214
'Salithion' 5414, 5415
soaps 2365
sulprofos 2363, 3644
systemic 2304, 2305
thiodicarb 2363, 3644
'Thuricide' 1242
trichlorphon 438, 440, 800, 3594, 3639, 4268, 5432, 5790
triflumuron 2363, 4955, 5384, 5405
virus preparations 823, 862, 1238, 1239, 1240, 1734, 1737, 2322, 2356, 2936, 2985, 2990, 3596, 4214, 4262, 4997, 5420, 6033, 6044, 7240
Insecticides, application 7202
aerial 438, 815, 1238, 1240, 1730, 1753, 1754, 1755, 2982, 3639, 3644, 3651, 4270, 4275, 4945, 4997, 5005, 5418, 5427, 6038, 6044, 7255, 7280

Insecticides, application *contd.*
ecological effects 815, 875, 1734, 1757, 1758, 1760, 2245, 2360, 2361, 2362, 3651, 4269, 5006, 7280
effect on soil organisms 647, 3649
effect on water composition 5790, 5791, 7258
equipment 876, 1730, 1736, 3644, 4945
form and methods 440, 819, 862, 1221, 1240, 1242, 1753, 1754, 1755, 2361, 2362, 2369, 2966, 2991, 2994, 2995, 2997, 3637, 4272, 4955, 4999, 5005, 5414, 5415, 5427, 6033, 6043, 7252, 7255
laboratory testing 2363
persistence 1756, 2991, 3647, 3651, 4021, 4272, 6041
phytotoxic effects 1221, 2365, 5007, 5008, 5009, 5010, 5791, 6040
pollution problems 1757, 1758, 4711, 7280
residues 873, 1756, 2991, 3278, 4021, 4270, 5010, 6041
study methods 3105, 4021, 5418
surface adhesion 440
testing 876, 1242, 2368, 3645, 3648, 4267, 4273
toxic effects on animals and man 443, 1239, 2121, 4283, 4711, 5790, 5791, 7258
translocation and metabolism 3278, 5009
Insolation, injury by 2692, 5361
Instruments for measurement and control, general 1867, 2088, 3147, 3148, 3916, 4566, 4761, 5238, 5683, 7069 (*see also* operation concerned)
Integrated control, insect pests 3576
Interception of precipitation (*see* Precipitation, hydrological aspects)
International aid and collaboration 480, 504, 941, 3180, 4382, 4391, 5104, 6226, 6275, 7338
International organizations 3104
Inventory, forest 2679, 2680, 2681, 3309, 4624, 6769 (*see also* Regeneration surveys; Surveys, aerial; Surveys, forest; Volume determination, tree and stand)
conferences, symposia 1866, 3308, 4658
'continuous inventory' 3313, 3320, 3321, 3970, 4629, 4646
damaged timber 1709, 2683, 3306, 4650
data recording and processing 489, 626, 926, 1319, 1866, 2065, 2677, 2682, 2696, 2731, 3070, 3310, 3311, 3312, 3315, 3317, 3320, 3746, 3916, 3917, 3969, 3971, 3972, 3973, 3974, 3975, 3983, 4625, 4626, 4627, 4628, 4635, 4636, 4637, 4638, 4639, 4655, 5229, 5745
economics 922, 3970, 4629, 5227
history, forest(ry) 3765
labour aspects 2682
national or regional 626, 3967
Brazil 3180, 5744
Canada 4645, 4662
Canada, British Columbia 5747
Finland 6251, 6261, 6262, 6263, 6264, 6265
France 622, 2464
Ireland, Northern 1472
Italy 3765, 6758
Nigeria 3968
Sweden 5748
Venezuela 4633
Yugoslavia 3765
review 3752, 4645
sampling methods 121, 229, 242, 482, 616, 618, 1090, 1091, 1092, 1319, 1473, 1866, 2018, 2024, 2036, 2060, 2063, 2066, 2685, 3070, 3312, 3313, 3316, 3320, 3322, 3323, 3329, 3921, 3967, 3968, 3970, 3971, 3972, 3974, 3978, 3980, 4627, 4628, 4634, 4644, 4647, 4648, 4649, 4652, 4653, 4654, 4655, 4663, 5225, 5226, 5228, 5229, 5230, 5578, 5742, 5746, 5747, 6167, 6197, 6759, 6761
systems analysis and simulation 617, 3313, 3315, 3970, 4627, 5213
Investment (*see* Financing, investment policy)
Iran
fungi 756
Iran *contd.*
history, forest(ry) 6282
nature conservation and reserves 6282
Quercus spp. 4696
soil types 4696
Iraq
grazing and pasture 3009
vegetation types 3009
Ireland
dendrochronology 3706
energy resources 79
management, forest 79
Ireland, Northern
dendrochronology 4361
statistics, forest 1472
Irish Republic
amenity forests, parks 7372
forests and forestry 6256
Irrigated stands 900, 1404, 2105, 3249, 3795, 6999
Irrigation 633, 1406, 2209, 2594, 3249, 4428, 6542, 6846
economics 5581, 6541
effect on soil 4462, 4701
with sewage 1405, 3880, 4462, 5244, 5798, 6448
review 573
Israel
Bostrychidae 1713
Cupressus sempervirens 177
flora/check lists 5879
forests and forestry 6281
irrigated stands 1404
management, forest 2415
Pinus halepensis 6719
Populus deltoides 1404
P. 'I-214' 1404
Prosopis farcta 5601
research, forest(ry) 2415
vegetation types 5905, 5906
Italy
Abies alba 5818, 5844, 7007
Aesculus hippocastanum 4872
afforestation 5666, 5667
amenity forests, parks 6121
bibliography 681
biological control 1748, 1749, 1750, 2989, 3592, 3598
burning, controlled 6920
Castanea sativa 6313, 6625, 6652, 6653, 6654
Ceratocystis fimbriata 4904
C. ulmi 3509, 5965, 7348
Cinara cupressi 164
climate 3346
coppice 78, 1965, 1966, 5135, 5623, 5624, 5726, 6481, 6484, 6485, 6486, 6488, 6489, 6493, 6570
credits and subsidies 6313
Cronartium flaccidum 781, 3521, 3523
Cupressus sempervirens 153, 158, 172, 5664
dendrochronology 3110, 4119, 5490, 6123, 6124
Diprion similis 1722
diseases, tree 163, 164, 781, 1645, 2882, 2894, 2904, 2910, 2913, 3497, 4872, 4882, 4936, 5488, 5844, 7144
drought 5844
economics, forestry 5759
Endothia parasitica 5360, 5980, 7175
environmental conservation 6105
erosion 6087
Fagus sylvatica 1966
farm forest(ry) 6098, 7348
fire control 3392, 5812
fires, forest 2751, 5803, 6911
forest ownership 6236, 6237, 6266, 6757
forest policy 5547, 5550
fuel plantations 78, 5135
Gonipterus scutellatus 7219
grazing and pasture 6048, 6485, 6488
Heterobasidion annosum 5844
history, forest(ry) 2470, 3765, 4119, 6267
hunting 3173
insects 172, 3592
irrigated stands 6541
Kabatina thujae 2894
land use 5552, 6777, 7335
legislation 3173, 5563
Lymantria dispar 4214, 4215
management, forest 2470, 2678, 5552, 5738, 5739, 6757
Italy *contd.*
maps 3162, 3346
Marssonina brunnea 7194
Matsucoccus feytaudi 5390, 5990
mechanization of forest operations 5668, 6636
Melampsora populnea 3520
nature conservation and reserves 5920, 6103
Neodiprion sertifer 6033
nurseries, tree 161
nursery management 3497
periodicals and serials 3708
Picea abies 5701
Populus spp. 681, 5666, 5667, 5669, 6636
Priophorus ulmi 3633
provenance studies 5818
Quercus cerris 6570
Q. suber 7046
Q. trojana 5912
remote sensing 245, 5749
research 1904
resources, forest 5547, 5920
seed production 2644, 3202
seed sources 3202
seed trade 3202
shade trees 5488
silviculture 158, 2587, 3266, 4119
sowing, direct 5637
surveying and mapping 5751
surveys, forest 2678, 6758
surveys, general 3765
Tetrastichus servadeii 3598
Thaumetopoea pityocampa 2989, 3598
thinning 6570
timbers 86
trees and shrubs 2180
trees and shrubs for 3198
Ulmus spp. 7348
urban and suburban forest(ry) 3633
vegetation types 3162, 5911, 7050
volume tables 5699, 5700, 5701
weight tables 5699
wildlife 3173
yield tables 5700, 5726
IUFRO (International Union of Forestry Research Organizations) 4349, 6161
Ivory Coast
forests and forestry 6286
mangroves 5894
regeneration, natural 6363
vegetation types 3439
vegetational history 5894
Jamaica
burning, controlled 5271
Phloeosinus neotropicus 4239
wind damage 5271
Japan
afforestation 2766
biological control 853, 2371, 4946
birds 2371
Bursaphelenchus lignicolus 3566
Cinara todocola 6034
Coleosporium spp. 4917
Cryphalus fulvus 3627
Cryptomeria japonica 3834, 7038, 7052
diseases, tree 1202, 1656, 3538, 4914, 4925, 5375, 5977, 7191
Dryocosmus kuriphilus 853
ecology, forest 5333
edible plants 5333
education and training 6319
erosion 5461
Fagus spp. 7044
fertilizers 111, 6437
forests and forestry 6279, 6284
hydrology 5457
insects 1719, 2319, 6021, 7222
international aid and collaboration 4788
landslides 5461
logging 6838
management, forest 3302
minor forest products 208
Monochamus alternatus 874, 3566, 4232
mycorrhiza 5333, 7126, 7127
nematodes 2978, 7222
nutrient cycle 7052
palaeoecology 2803, 7044
Pinus densiflora 7109
P. thunbergii 3284, 3292
pollen 2803
recreation 7362

Japan *contd.*
resources, forest 949
Stenolechia bathrodyas 409
surveying and mapping 3982
timber trade 957
Tortricidae 1215
vegetation types 7052
vegetational history 2803
weed control 6548
wildlife 7284
Japan, Hokkaido
avalanches 3051
biological control 6036
diseases, tree 1199
forest administration 6805
forests and forestry 6805
Lymnatria dispar 6036
protection forest 3051
Sasa kurilensis 2783
wildlife 4281
Japan, Honshu
afforestation 6819
amenity forests, parks 7361, 7374
Chamaecyparis obtusa 6730, 6739
Cryptomeria japonica 4684, 4811, 5723, 7043
Dasychira argentata 4968
diseases, tree 7186
erosion 3669, 7308, 7309
Fagus crenata 5824
floods 2382, 2383, 2384
grazing and pasture 6050
hydrology 3029, 3669, 6863, 7300
landscape 7374
landslides 3057, 7308, 7309
Larix leptolepis 6705
management, forest 3962
nutrient cycle 6859, 6860, 6861, 6862, 6863
palaeoecology 7043, 7045
Pinus densiflora 7374
pollen 4812
pollution, air 5794
pollution, water 4711
protection forest 2382, 2383, 2384
regeneration, natural 6501
Sciadopitys verticillata 4589
soil types 6819
succession 5903
surveying and mapping 4812
Thujopsis dolabrata hondai 6731
vegetation 4812
vegetation types 5903, 6501, 6859
yield studies 6730
Japan, Kyushu
breeding, tree 7108
Coleoptera 7203
Cryptomeria japonica 4144
floods 3667
Machilus thunbergii 7042
Pinus densiflora 6687
protection forest 3667
silviculture 6483
stand characteristics 6687
Japan, Shikoku
erosion 7307
regeneration 5913
regeneration, natural 4498
vegetation types 5913
Juvenile forms in plants 4060
Juvenile wood 1523
Kenya
afforestation 2565
agroforestry 5483
Colobus hadius rufomitratus 1262
conferences, symposia 5483
diseases, tree 7157
education and training 3787
farm forest(ry) 5127
fuel plantations 5127
fuel resources 5108
Gonometa podocarpi 2937
limnology 1858
mangroves 2354
marine borers 2354
national parks 1824, 7269
nature conservation and reserves 1262, 1824
nursery management 2566
phenology 6932
Pineus pini 403, 404
Pinus caribaea 2566
P. oocarpa 2566
Kenya *contd.*
provenance studies 2567
species trials 2565, 2567
vegetation types 6932
wildlife 1824, 7269
Keys, taxonomic 726, 1891, 2180, 4974
Knots 2742
Kockum processor 1998
Korea
biological control 5421, 5424, 5425
Chamaecyparis obtusa 6749
cooperatives 6280
Cryptomeria japonica 6749
Dendrolimus spectabilis 5424, 5425
development, forestry 6280
fertilizers 6451
forests and forestry 947
insects 7206
management, forest 4391
Pinus densiflora 7109
pollution, air 5262
private forest(ry) 4391
silviculture 3266
Thecodiplosis japonensis 7247
yield tables 6749
Labour, forest 63, 64, 65, 66, 68, 69, 523, 1308, 1334, 1336, 1903, 1908, 2074, 2503, 2504, 3793, 4675, 5474, 5543, 5566, 6330, 6332, 6334, 6336, 6341, 6343, 7384
book 4404
Lac 588, 2638, 5475
Ladders 4142, 7382
Lammas growth 115, 2147
Land classification 1096, 1851, 1866, 2408, 2857, 3070, 3071, 3072, 3073, 3076, 3077, 3078, 3079, 3080, 3081, 3083, 3084, 4002, 5240, 6833, 7380
conferences, symposia 3067
systems analysis and simulation 3082
Land clearing 2010, 6074 (*see also* Site preparation)
Land use 1187, 1323, 1324, 1325, 1327, 2405, 3065, 3088, 6047, 6886
abandoned farmland 3683, 5090
bibliography 4315
book 1819, 6135
classification 501, 1821, 3078, 3081, 4316, 4317, 5234, 5470, 7335, 7340
conferences, symposia 1281, 6072, 6196
data recording and processing 243, 2459, 3754, 5528, 5529, 6253
ecological aspects 2415, 3085, 3090, 5045, 5449, 5486, 6067, 6883, 7345
economics 1482, 2425, 3153, 3688, 3996, 4331, 4365, 5754, 7339
legislation 5539
maps 5234, 5529, 6777, 7335
planning 973, 1281, 1797, 2129, 2403, 2430, 2490, 2671, 3034, 3175, 3302, 3684, 3685, 3750, 3757, 3758, 3769, 4002, 4677, 4757, 5068, 5528, 5529, 5552, 6196, 7334, 7337
Africa 1287
Africa, Sahelian zone 1283
Asia, South-East 1853
Austria 3153
Canada 4314, 4315, 5045
Developing Countries 2407
France 5539
Great Britain 3767
Great Britain, Wales 7347
India 510, 5580
India, Madhya Pradesh 4333
India, Uttar Pradesh 4334
Indonesia 5472
Philippines 4318
South Africa 893
USA 476, 1821, 5093
USA, California 2425, 4332
USA, Colorado 4332
USA, Idaho 910, 911
policy 1281, 1326, 1809, 1819, 2430, 3087, 3682, 3767, 4313, 4331, 4392, 7341
relation to site factors 912, 7330
relation to soil 2455, 7330
study methods 919, 2407, 7340
systems analysis and simulation 1819, 2425, 4332
Landscape 1800, 1817, 2437, 2438, 2439, 2445, 3093, 4348, 7058, 7059
book 2446
Landscape and forestry 918, 930, 1303, 1306, 1887, 2427, 3103, 3698, 3899, 4319, 4320, 4340, 4347, 5202, 6107, 6111, 6195, 6196, 6229, 6302, 6320, 7318, 7332, 7343, 7369, 7374, 7375, 7376
book 4350
conferences, symposia 2426
Landscape ecology 919, 1596, 6877, 7373
Landslides 2393, 3057, 3678, 7304, 7307, 7308, 7309
review 5461
Latex 6950
Law 3170
Leaf, anatomy 2770, 4070, 4112, 5204, 5290, 6154, 6156, 6950, 6998, 7315 (*see also* Epidermal structures, plant; Stomata)
cytology 1852
growth and development 5290, 6150
measurement 3284, 3289, 5928, 6673, 7315
morphology 1552, 1553, 1881, 2155, 2769, 2770, 4112, 5204, 6154, 7101
physiology 574, 2308, 4085
shedding 5928, 6935
Leaf crops 208, 5830, 6423, 6635, 6667
Leaf fall (*see* Foliage, seasonal behaviour)
Leases, land 1817, 1818
Legislation 964, 1309, 2059, 2137, 2473, 4023
Australia 1808
Austria 3161
Botswana 2511
Canada 6112
Canada, Ontario 3775
Chile 3175
China 3179
France 59, 2498, 3172, 5541
Germany, West 2443, 3157, 3169, 4401, 6230, 7365
Great Britain 61, 1332, 3776
history, forest(ry) 5541
Indonesia 2497
Italy 3173, 5563
Malaysia 3774
New Zealand 3170
Portugal 3176
Spain 3174
Sweden 3177, 3178
Switzerland 47
Tunisia 3171
USA 60, 575, 965, 2117, 2738, 5097, 7360
USA, southern 1137
USA, Virginia 5564
Lesotho, fuel plantations 2512
Lesser Antilles
flora/check lists 2184
Palmae 2184
Lianes (*see* Climbers)
Liberation fellings 2752, 3144, 3889, 3895, 5639
Liberia
education and training 3786
nature conservation and reserves 4280
wildlife 4280
Libyan Arab Republic
afforestation 1277
environmental conservation 5070
shelterbelts 5070
Licences (*see* Concessions and licences)
Lichens 256, 730, 2801, 4808
Light
canopy effects 592, 1816, 2746, 3947, 4787, 4788, 5523, 6491, 6498, 6682, 7014
ecological aspects 3924, 6994
effect on disease 3539
light relations of species 345, 698, 1378, 1929, 2656, 2763, 3850, 3924, 4787, 4788, 6498, 6997, 7014
measurement 592, 4787, 4788, 6682
physiological aspects 16, 699, 700, 701, 1378, 4085, 4093, 4787, 4789, 4791, 4793, 6491, 6997 (*see also* Photoperiodism; Photosynthesis; Seedlings, light relations)
Lightning 2132, 3391, 4029, 4030, 4738, 4756
Lightwood (*see* Resin-tapping)
Lignification 4080, 5302
Lignin
chemistry 5294

Lignin *contd.*
distribution 1551
formation, structure 1551, 5297
Lignotubers 2760, 2761, 2762
Limnology 1858, 1859
Line planting/sowing (*see* Improvement planting)
Litter, forest (*see also* Humus, surface)
accumulation 931, 1494, 2091, 2709, 4005, 4006, 4689, 5448
bacteria 645, 2100, 3502
chemistry and nutrient relations 640, 1117, 1494, 1497, 1501, 1503, 2090, 2092, 2093, 2111, 2221, 2222, 2223, 2711, 3358, 3502, 3841, 4004, 4011, 4689, 4708, 5242, 5250, 5251, 5256, 5772, 5777, 6826, 6857, 6995
decomposition 641, 642, 931, 1117, 1497, 1500, 1503, 1616, 2091, 2092, 2093, 2099, 2100, 2101, 2111, 2221, 2222, 2224, 2710, 3355, 3359, 3740, 4006, 4995, 5242, 5256, 5448, 5479, 5772, 5774, 5775, 5959, 6826, 6829, 6861
effect of fire 3740, 4006, 4045
flora and fauna 254, 641, 645, 1616, 2099, 2100, 2224, 3481, 4689, 5885, 5959
moisture relations 1116, 1500, 2709, 3358, 4692, 5807
quantitative measures 594, 640, 641, 642, 3356, 3357, 3943, 4005, 4007, 4011, 4708, 5267, 5479, 5774, 5775, 5777, 6829, 6831, 6860
relation to succession 4004
removal 4012, 4521, 5773, 7371
respiration 4689
soil relations 641, 1119, 1495, 1496, 4007, 4689, 5776
study methods 2093, 3358, 3943
systems analysis and simulation 4995
thermal relations 1116, 1117, 4045
Loans (*see* Credits and subsidies)
Loft plough 4522
Logging
amenity aspects 3964
conferences, symposia 450, 6479
damage 2692, 2733, 3377, 3941, 4017, 5671, 5958, 6471, 6575, 6877, 7164
disease aspects 387, 450
ecological effects 447, 448, 450, 890, 1593, 1851, 2373, 2725, 2737, 3190, 3736, 3743, 3964, 4277, 4337, 6068, 6071, 6874, 6877 (*see also* Clear felling, effects, ecological)
economics 629
effect on soil 2723, 2733, 3377, 4013, 4017, 4022, 4496, 5196, 5259, 5518, 6838, 6839
erosion effects 634, 896, 964, 1274, 2736, 4018, 4302, 7293
fuel plantations 3799
hydrological effects 450, 891, 1274, 1775, 2736, 2737, 3668, 3964, 4293, 4294, 7293
labour aspects 3170
machines, tools, equipment 1410, 1995, 5138, 5196
planning, organization 241, 6678, 6877
policy 7293
primary conversion 6599
seasonal factors 6678
systems analysis and simulation 2725
thinnings, poles 5185, 6599
waste/loss 1616, 2679, 2680, 2681, 3928, 5743, 5745
whole-tree 1074, 2725, 5518, 6838, 6839
work studies 1410, 1411, 5185
Longevity/life duration 3679
Lupins 374, 908, 1365, 2715, 3841, 5159, 5614
Luxembourg, vegetation types 300
Lysimeters 5525, 6077
Madagascar
education and training 3785
fertilizers 6438
trees and shrubs 7018
Malawi
education and training 3787
fuel plantations 2510, 5571
species trials 2510
Malaya
arboreta 4060, 6837
bamboos 5822, 7009
Malaya *contd.*
Bos gaurus hubbacki 1853
breeding, tree 1852
canes and rattans 2012, 2013, 5680, 5681, 6663
Chionanthus spp. 1570
conferences, symposia 3713
Corvus splendens 1857
Cyprinidae 1858
deforestation 6848
Diptera 1851
Dipterocarpaceae 1355, 4060
diseases, tree 7182
Dyera costulata 1356
ecology, forest 2167, 4140, 5779
fishing and fishery management 1858, 1860, 2412
forest policy 948
forest site classification 251, 2714
hydrology 451, 1779, 1780, 1858, 6080
insects 4079
mangroves 1860, 2412, 6848
minor forest products 1852, 5679
nutrient cycle 1494, 1780
phenology 1852, 4060, 4098, 7012, 7013
Primates 1854
propagation 6418
reclamation of degraded land 6837
regeneration 4788
regeneration, natural 1860, 2168, 3858, 4079
research 4788, 5592, 6321, 7012
resources, forest 2412
secondary or cut-over forest 7015
seed production 1355, 1356, 1357, 2168, 3816
soil survey 251
soil types 1494, 2714, 5779
sowing, direct 2170
species trials 1914, 2714, 5592
Styrax benzoin 7015
surveys, forest 2062
trees and shrubs 2167
vegetation types 1851, 1852, 2062
volume tables 5697
Malaysia
breeding, tree 2169
education and training 3782, 3783
forest industry 6273
forest policy 1964
forests and forestry 6221, 6273
legislation 3774
logging 6487
national parks 3774
nutrient cycle 5256
regeneration 1964
silviculture 6487
vegetation types 5256
vegetational history 3433
Malaysia, West, maps 627
Malaysian region, mangroves 2872
Malesia, Euphorbiaceae 7030
Mali
Butyrospermum parkii 2636
minor forest products 2636
Mammals, general 888, 1254, 6621, 7285, 7286
Mammals, small 274, 2373, 2377, 3656
Management, forest 56, 965, 2058, 2464, 2470, 3709, 3733, 5501, 5505, 5506, 5507, 5508, 5515 (*see also* Working plans; Yield regulation and forecasting)
book 2075
conferences, symposia 2413, 3300, 6164
cooperative 3034
data recording and processing 1866, 2459, 2699, 3753, 3754, 5225, 5233, 6215, 6316
ecological aspects 41, 183, 444, 476, 477, 613, 2331, 2474, 2628, 2810, 2826, 2856, 3618, 3738, 3964, 4394, 5240, 5327, 5526, 6063, 6164, 6302, 6751, 7054
economic aspects 240, 247, 1317, 1320, 1466, 1470, 1797, 2003, 2075, 2412, 2419, 2499, 2670, 2850, 3145, 3990, 4263, 4619, 4669, 4674, 5094, 5237, 5496, 5735, 5755, 5757, 6306, 6316, 6750, 6799, 6804
history, forest(ry) 6755
hydrological effects 3964, 6302
management units 1089, 2672, 3302, 5998
Management, forest *contd.*
multiple use 613, 910, 973, 1263, 1320, 1441, 1771, 2073, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2671, 3302, 3686, 3698, 3964, 3990, 4365, 4651, 4669, 5224, 5526, 5740, 5741, 6302, 6306, 6756, 7362
organization 46, 47, 1900, 2641, 3618, 5237, 6309, 6804
principles, theory 247, 973, 2490, 2669, 3300, 3301, 3302, 3303, 3304, 3305, 4619, 5082, 5741, 6269, 6306, 6585, 6748, 6750
review 2628
silvicultural planning 71, 79, 80, 128, 151, 181, 190, 191, 192, 241, 1031, 1032, 1089, 1105, 1469, 1471, 1487, 1887, 2056, 2057, 2059, 2075, 2331, 2465, 2473, 2489, 2672, 2673, 2674, 2675, 2678, 3027, 3055, 3056, 3181, 3267, 3300, 3301, 3302, 3303, 3304, 3305, 3307, 3684, 3685, 3962, 3963, 3966, 4514, 4573, 4607, 4619, 4620, 4621, 4622, 5225, 5524, 5552, 5559, 5736, 5738, 5739, 6215, 6240, 6241, 6470, 6494, 6630, 6748, 6752, 6753, 6754, 6757, 7051
systems analysis and simulation 614, 939, 1320, 1471, 1869, 2056, 2414, 2415, 2673, 3302, 3303, 3618, 3742, 3965, 3966, 4377, 4617, 4674, 5223, 5224, 5526, 5740, 6748, 6756
Mangrove forest 609, 1860, 1898, 2418, 5782, 6848, 7125
management 1771, 3442, 3443
silviculture 2483, 2484, 3442, 3443
Mangroves 1594, 2110, 2120, 2144, 2145, 2146, 2354, 2412, 2853, 2872, 4843, 5781, 5823, 5891, 5892, 5893, 5894, 5895, 5896, 6158, 6221
bibliography 5897
Manure (*see* Fertilizers, animal products)
Mapping (*see* Surveying and mapping)
Maps 520, 2800, 3159, 3162, 3346, 3440, 5232, 5579, 6264 (*see also* subject or geographical region concerned)
bibliography 295
uses in forestry 4716
Marine borers 2354
Marine fungi 4843
Marking, trees 5186
Martens 1258
Match manufacture 282
Mathematical and statistical methods 77, 214, 230, 231, 233, 234, 242, 247, 266, 497, 498, 598, 600, 612, 893, 939, 1092, 1142, 1223, 1301, 1318, 1321, 1334, 1469, 1721, 1868, 2034, 2060, 2063, 2067, 2087, 2203, 2646, 2654, 2659, 2665, 2730, 2731, 3001, 3293, 3294, 3747, 3748, 3943, 4653, 4984, 6213, 6217, 6742
angle-count 6762
assortments and assortment tables 5703
bark, quantitative measures 5209
biomass production 4590
quantitative measures 4596
breeding, tree 4831
browse 3002
competition 5520
computer techniques 4375
conferences, symposia 6197
crown
dimensions 4578
weight 5218
data recording and processing 2677
distribution (natural range) 5320
economics, forestry 2699, 3994, 4345, 5760
Endothia parasitica 5360
energy resources 6350
fertilizers, application 5617
to established stands 4458
fire danger 4034, 4747
fire prevention 4751
fires, forest 4737, 5808
foliage
optical characteristics 6775
quantitative measures 4578
forest administration and forest services 2699
forest industry 5548
fuel, resources 3794

Mathematical and statistical methods *contd.*
genetics, plant, general 3473
hydrology 5452
increment 3952, 4611, 5717, 5720
inventory, forest 2677, 3308, 3310, 3312, 3317, 3320, 3970, 3971, 5229
management, forest 5082
measurement of roundwood 6697
population studies and surveys 6022
remote sensing 3332, 3333, 3335
root and butt rots 5957
sample-plot technique 6761
site-class assessment 5727
sowing, direct 4559
stand characteristics 4571, 4573
stand tables 4612
streams 7292
succession 4807, 7033
synecology 4807
spatial distribution patterns 4376
thinning 4547, 6585
volume determination, tree and stand 3971, 3976, 4647, 4648, 4649, 6690
volume tables 5697
water composition and quality 7292
wind 4681
wood anatomy, general 6960
work studies 3997
yield regulation and forecasting 3319, 4573, 4603, 4604, 4605, 5729
yield tables 5734
Mauritius, education and training 3785
Measurement of roundwood 223, 2667, 4568, 5687, 6963
allowances for defects 5211, 6745
bark allowance 5210
conversion factors 5688
standard 5685
tables 4545, 4577, 6697
volume of logs 6671
volume of stacked or bundled products 5688
work studies 5689
Measurement systems, units 591, 3308, 3318
Mechanization in forestry, general 578, 2633, 2634, 6639, 6651
book 3907
conferences, symposia 2610, 5193
economics 2610, 5199, 5668, 5672
labour aspects 69, 146, 6337
machine types and design 146, 204, 1053, 1769, 2009, 3271, 3274, 3905, 4426, 4544, 4559, 5201, 5673, 6535, 6635, 6636, 6640, 6641, 6642
patent 6637
research 3274
vibration/noise 6337
work studies 3271, 3274, 6640
Medicinal and pharmaceutical products 1054
Medicinal plants 5204
Mediterranean region
Abies spp. 2764
broadleaves 1891
deforestation 1886
diseases, tree 4389
forest policy 5549
forests and forestry 1891, 6366
history, forest(ry) 1886
minor forest products 590
ornamental trees and shrubs 161
pests, general 4389
Quercus spp. 1891
remote sensing 245
Mensuration, forest 229, 5515
calculation aids 1453
data recording and processing 1319, 2014, 6211, 6760
growth and yield 6211
instruments, multi-purpose 5683, 6680
standard 591
Meteorology
meteorological stations 4679, 5239
weather records 5239, 7204, 7205
Metric system/metrication 3917, 6720
Mexico
Agave lecheguilla 4564
agroforestry 462, 463, 2415, 3483
book 2244
conferences, symposia 3090
deforestation 484
degraded forest and land 3090
Mexico *contd.*
Dendroctonus pseudotsugae 841
Dioon spp. 2790
ecology 1856
education and training 3784
fish 3030
Gmelina arborea 2528
grazing and pasture 2418
management, forest 2414
maps, vegetation 2240
national parks 3760
nature conservation and reserves 1856, 3030
nursery management 3224
Pinus edulis 4810
P. estevezii 5313
research 4642
shade trees 462, 3483
species trials 2528, 4640, 4641
succession 3427
surveys, forest 3313
Swietenia macrophylla 3224
vegetation 2244
vegetation types 3030, 3427
wildlife 2418
Yucca carnerosana 4564
Mice, voles and rats 442, 540, 4282, 4286, 7262, 7263, 7264, 7274, 7275, 7276, 7283
Microclimatology, micrometeorology 1136, 1188, 1485, 2081, 2126, 2198, 2199, 2701, 2746, 4410
Micron Herbi spray 2609
Microscopy 2300, 4899
Mildews 707, 3536, 4192, 5368, 5976
Mining wastelands 454, 455, 457, 906, 1278, 1498, 1794, 1795, 1796, 1797, 1798, 2396, 2398, 2399, 2402, 2591, 3059, 3062, 3063, 3064, 3681, 4304, 4305, 4306, 4309, 4310, 4668, 5062, 5063, 5465, 5466, 5468, 6095, 6096, 6766, 7313, 7317, 7318, 7321, 7326 (*see also* Afforestation, mining wastelands)
bibliography 1520, 1793, 5064, 7329
Minor forest products, general 197, 209, 211, 462, 1056, 1060, 1062, 1441, 1851, 3112, 3275, 3282, 5679, 5832
Mistletoes 239, 2312, 4342, 7198
biology and ecology 1206, 1669, 2339, 2927, 2928, 3554, 4054, 4197, 4198, 5183, 5382
control 790, 1667, 1668, 1669, 1670, 1671, 2457, 3125, 3895, 4054, 5183
Mites 831, 1677, 2101, 2353, 3638, 4203, 4983, 5343
Mixtures 2005, 6612
increment and yield 1048, 2040, 2041, 3865, 4557, 4592, 5159, 5192, 5747
management 2041, 5501, 5728
measurement, tree and stand 5691
silviculture 372, 564, 1048, 3865, 4553, 4557, 5659
vs. pure stands 2040, 2041, 4117, 4553, 4595, 5189, 6873
Moisture meters (*see* Soil water, measurement)
Moisture, wood, distribution and variation within the tree 1063
Molluscs 3531, 6042
Monkeys 1256, 1260, 1262, 1854, 4285, 4797
Moose (*see* Elk (moose, *Alces*))
Mor (*see* Humus, surface)
Morocco
afforestation 2397
bibliography 1
catchment areas, management 2104
Cedrus atlantica 601
climate 3707
Cupressus atlantica 155, 601
dendrochronology 3707
Eucalyptus spp. 589
hydrology 2104
minor forest products 589
Pinus spp. 601
P. canariensis 236
P. pinaster 88
Populus nigra 601
provenance studies 89
Morphology, plant 154, 155, 1553, 2179, 3399, 3474, 5825
abnormalities 2170
Mortality (*see* Stand characteristics, mortality/survival)
Moss 668, 730, 2247, 3373, 6506, 6870
Moufflon 3655
Mountain forests and forestry 249, 2415, 3044, 3049, 3050, 3053, 3055, 6359, 6361, 6475
conferences, symposia 3035
Mozambique, forests and forestry 5557
Mud flows 7307
Mulching 208, 2566, 2573, 3393, 4307, 4484, 5180, 5780, 6464, 7381
Mull (*see* Humus, surface)
Murveln soil scarifier 6640
Museums 1887
Musical instruments 6125
Mutagens 4088
Mycoplasmal diseases of trees 9, 396, 398, 3477, 3551, 4148, 4149, 4150, 4151, 4152, 4935, 6186, 7191, 7192, 7193
book 5378
conferences, symposia 5378
Mycorrhiza 1186, 3485, 5417, 5516, 5934, 7128, 7132
classification, types 750, 3489, 4852, 4858, 5946, 7134
conferences, symposia 2268
culture techniques 757, 2263, 3487, 5336
directories 2267
ecological aspects 369, 457, 753, 1190, 1616, 1623, 2261, 2875, 3763, 4153, 4848, 5333, 5467, 5943, 6180, 7126, 7127, 7134
effect of fungicides 4849, 5971, 7139
effect of soil treatment 378, 752, 758, 1406, 2266, 2873, 2874, 3211, 5338, 5620, 5947, 7143
effect of weedkillers 3488
effect on disease 2272, 2781, 4851, 4919, 5971, 6454, 7150, 7151
host specificity 755, 5949
inoculation 35, 110, 368, 375, 376, 377, 457, 572, 752, 759, 1189, 1619, 1620, 1621, 2264, 2265, 2266, 2272, 2561, 2873, 3211, 3482, 4154, 4844, 4845, 4846, 4850, 4854, 4855, 4860, 5167, 5195, 5338, 5945, 5948, 5971, 7130, 7133, 7135, 7137, 7138, 7140, 7141, 7143, 7150, 7321, 7325
interaction with soil fungi 7126, 7127
morphology 687, 757, 1622, 1625, 2262, 2874, 4852, 4857, 5334, 5335, 7129, 7142
mycorrhizal fungi 5, 377, 749, 751, 755, 757, 1618, 1622, 1880, 2100, 2263, 2266, 2875, 2876, 3487, 3489, 3490, 3491, 4153, 4154, 4845, 4847, 4850, 4851, 4856, 5333, 5335, 5339, 5943, 5944, 5945, 6502, 7129, 7130, 7137, 7139, 7150, 7321
nutritional physiology 373, 376, 378, 754, 1624, 1880, 2269, 3489, 4850, 4856, 4857, 4858, 4859, 5336, 5337, 6180, 6853, 7129, 7131
study methods 495, 2269, 7136, 7142
National parks 916, 917, 1177, 1246, 1824, 1825, 1901, 2235, 3096, 3694, 3695, 3760, 3774, 3776, 4396, 4757, 4862, 5076, 5800, 6107, 6196, 7269, 7359, 7360, 7366, 7367 (*see also* Nature conservation and reserves)
book 3097
Nature conservation and reserves 60, 500, 914, 915, 943, 964, 1293, 1294, 1295, 1296, 1297, 1824, 1853, 2058, 2375, 2423, 2795, 3014, 3030, 3094, 3457, 3458, 6364, 7360 (*see also* Conservation, soil and water; National parks; Protection forest; Wilderness; Wildlife, conservation and management)
Asia, tropical 4108
Australia, Victoria 7285, 7286
Australia, Western Australia 5034, 5071
Bangladesh 5069
book 2422, 3692
China 7354
Czechoslovakia 7337
Germany, West 2431, 3093, 3693, 6229
Great Britain 1019, 3692, 3776, 6836, 7355, 7358
India 6106
India, Gujarat 4279
Indonesia 2497, 4337
Iran 6282
Italy 5920, 6103

Nature conservation and reserves *contd.*
Liberia 4280
Mexico 1856
Netherlands 1887, 6104
Norway 1298
Poland 3321
Sabah 1771
South Africa 6070
Spain 3174
USA 2856, 3020, 3095, 7356
USA, California 3096, 5484
USA, Oregon 3091, 3092
Naval stores (*see* Resins)
Nectar 590, 709, 4070, 4817, 6666
Needles (*see* Foliage; Leaf)
Nematicides 1759, 5341
Nematodes 1186, 4983
in animals 831, 840, 858, 1233, 2342, 2958, 2988, 3624, 4947
in plants 858, 874, 1236, 2965, 2978, 2979, 3566, 4996, 5417, 6029, 6030, 6185, 6188, 7222, 7250
in soil 859, 1982, 2213, 3257, 4467, 4689
Nepal
bibliography 5491
development, forestry 6275
forests and forestry 5491
international aid and collaboration 6275
Netherlands
afforestation 1887, 2585, 6094
Agriopis aurantiaria 6010
amenity forests, parks 4352
Aradus cinnamomeus 7209
biological control 6547
birds 1887
Cecidomyia pini 3636
Ceratocystis ulmi 5350
conferences, symposia 2585
coppice 587
demonstration and instruction forests 6323
dendrochronology 7391
diseases, tree 2310, 2898, 2925, 3549
economics, forestry 2693, 2694, 5757
history, forest(ry) 1887
Hylobius abietis 4254
international aid and collaboration 3764
landscape 1887, 2437, 2438, 2439
machines, tools, equipment 3271
minor forest products 1887
nature conservation and reserves 1887, 6104
planting 2595
private forest(ry) 2693, 2694
Quercus robur 6622
recreation 2437, 4352
recreation, forest 2432, 2434, 2435, 2436
research 1887, 6104, 6669
reserved forest 6104
shelterbelts 7312
site preparation 2595
urban and suburban forest(ry) 4352
vegetation types 7055
Viscum album 4197
weed control 6547
work studies 5202
yield studies 6622
New Caledonia
Cupressaceae 711
fuel resources 5114
Podocarpaceae 711
Taxaceae 711
New Zealand
accidents 2505
Agathis australis 4689
agroforestry 1803, 4335
Amphisalta spp. 1213
Armillaria limonea 2276
A. mellea 2277
A. novae-zelandiae 2276
biological control 421
birds 1246
breeding, tree 734, 735, 746
Chalinolobus tuberculatus 2380
Ctenopseustis obliquana 1217
Deladenus siricidicola 1233
development, forestry 2409, 2410, 6302, 7270
Diplodia pinea 2289
diseases, tree 1198, 2624, 2920
ecology, forest 2191
economics, forestry 6303
energy resources 2519
New Zealand *contd.*
erosion 1492, 3022
Eucalyptus spp. 746
E. saligna 5652
Eucolaspis brunnea 1227
farm forest(ry) 1313, 1803, 4336
fertilizers 2558, 3741
forest administration 6303
forest industry 6304
forest site classification 2662
forests and forestry 6221, 6301
Heliostibes atychioides 1219
Hymenogaster albus 2876
insects 2625
international aid and collaboration 6226
labour, forest 1908
land clearing 2010
Libocedrus bidwillii 3441
logging 4013
management, forest 80, 1908, 3738, 6302, 6306
maps 2854
Melampsora coleosporioides 394
Melolonthinae 1229
mycorrhiza 2875, 2876, 5339, 5944, 5945
national parks 1177, 1246
nature conservation and reserves 3457
nursery management 1014, 2583, 3225, 3226, 6459
nutrient cycle 3721, 3738
palaeoecology 2804
Paropsis charybdis 420, 421, 1243
periodicals and serials 1313
pests, general 1733
Pinus radiata 734, 735, 2004, 2191, 2662, 6513, 6604
plantations 2584, 2624, 2625, 4504, 6307, 6513
planting stock 1390, 6459
pollen 1172
Pontania proxima 1234
productivity, forest 80, 607, 2046
Proterodiplosis radicis 1235
recreation, forest 2440, 6302
resources, forest 6300, 6307
seed production 735, 2583
shelterbelts 4335
Sirex noctilio 1232, 1233
site preparation 2010, 6531
soil survey 6835, 6842
succession 1177
thinning 5652
Uresiphita polygonalis maorialis 1220
vegetation types 2854
volume tables 1070
weed control 5646
wildlife 3022, 7270
wind damage 2086, 2702
Nicaragua
Cordia alliodora 3460
flora/check lists 2793
seed sources 3460
Nicolas brush-cutter 3272
Niger, fuel resources 5125
Nigeria
breeding, tree 3446
diseases, tree 4158
education and training 3786, 3789
forests and forestry 2491
fuel resources 5109, 5122
hydrology 1272
insects 6008
Khaya grandifoliola 1459
minor forest products 205
names, plant 5314
research 2491
shifting cultivation 1856
soil types 1851, 1856
surveys, forest 3968
Tectona grandis 4145
termites 3355
Nitrogen cycle 260, 660, 1502, 1503, 1504, 1505, 1506, 1507, 1512, 2225, 2230, 3119, 3373, 3673, 3736, 3841, 4014, 4015, 4708, 4709, 4762, 6852
systems analysis and simulation 4609
Nitrogen fixation 256, 370, 371, 372, 373, 374, 643, 760, 904, 1122, 1501, 2162, 2219, 2270, 2715, 3483, 3484, 3486, 3492, 3493, 3735, 3739, 4557, 5063, 5245, 5253, 5521, 5934, 6453, 6843, 6852, 6864
Nitrogen in plant physiology 4092
Noise and its control 6902
Nomenclature
biological, general 5314
common names of plants 3316, 5314, 5316, 5317
standard/registered, of woody plants 714, 7016
Norfolk Island
Araucaria heterophylla 1163
diseases, tree 1163
Norway
Betula pendula 2259
breeding, tree 5280
cooperatives 2074
Corylus avellana 7039
diseases, tree 2275
economics, forestry 2074
education and training 578
farm forest(ry) 2074
fires, forest 4726
forest ownership 2074
hydrology 4296, 4297, 4298, 5042, 5043
insects 850
labour, forest 2074
land classification 3075
Larix leptolepis 5139
mechanization of forest operations 578
nature conservation and reserves 1298
nursery management 558
palaeoecology 5883
peatland 5042, 5043
phenology 5280
Picea abies 5883
P. sitchensis 1348
Pinus sylvestris 1349, 1563
pollution, air 5787
productivity, forest 6727
provenance studies 558, 1348, 1349, 2259, 5139
Pseudotsuga menziesii 1468
research 5792, 6868
resources, forest 2074
Rubus chamaemorus 5865
spacing 6521
species trials 6363
stumpage value and fees 2275
thinning 578
vegetation types 7050
weed control 6563
Xyloterus lineatus 426
Nuclear fall-out (*see also* Radioactive isotopes, nuclear fall-out)
Nurse and auxiliary species 3242, 4557, 6837
Nursery management 116, 161, 6459 (*see also* Planting stock; Propagation, vegetative)
Betula pendula 3807
conferences, symposia 1951, 1952, 1953, 1954, 1991, 2561
control of air composition 1378
cultivation under glass etc. 320, 558, 1182, 1384, 1959, 2560, 2564, 4529, 5164, 6456, 6458
diseases and control 562, 1186, 1191, 1379, 1626, 1627, 1955, 2272, 2307, 2879, 2880, 2889, 2919, 3497, 3498, 3499, 3533, 4157, 4169, 4171, 4184, 4185, 4864, 4865, 4866, 5163, 5167, 5340, 5341, 5951, 5952, 5972, 6454, 7182
economics 1008, 1841, 5199, 5619, 6467
fertilizing (*see* Fertilizers, application, nurseries and nursery stock)
history 2495
hydroponic cultivation 6457
inventory methods 6456
irrigation 2102, 2561, 4473, 5786
lifting 137, 562, 1394, 1951, 2561, 4476, 4477
lighting, artificial 1378, 3850, 4093, 4472
machines, tools, equipment 1009, 1394, 2633, 3225
mechanization 2564, 5168, 5195
pests and control 8, 427, 1229, 1982, 2561, 3599, 4201, 4467, 5341, 5417, 5987
Picea glauca 6382
Pinus radiata 5163
P. sylvestris 6461
planning, organization 1383, 1384

Nursery management *contd.*
potting/rooting media 3, 18, 22, 1010, 1196, 1947, 1958, 2264, 2562, 2566, 2568, 2569, 2570, 2574, 4481, 5164, 5167, 5340, 5618, 5620
pre-conditioning of planting stock 1558, 1952, 3122, 3123, 3223, 4465
pricking out 1011, 1012
production of balled stock 6648
production of extra-large stock 3851, 6648
protection 12, 6469
root pruning 559, 687, 1009, 3846, 6461, 6465
rotations 859
shading 1929, 2559, 2566, 2570, 2573, 2763, 4473, 4787, 4788
siting and lay-out 2633, 4473
soil and soil treatment 378, 1189, 1377, 1381, 1619, 1620, 1958, 2264, 2266, 2561, 2564, 2566, 2573, 2633, 2873, 3211, 3224, 3482, 3849, 4467, 4473, 4477, 4484, 4846, 5165, 5195, 5620, 5786, 5946, 6455, 6463, 6464, 7133, 7135, 7138, 7143
sowing 117, 1012, 1376, 1382, 1928, 1960, 1961, 2572, 2573, 2583, 3225, 5170, 6464
spacing of plants 187, 733, 1382, 2102, 4475, 6458, 6461, 6467
study methods 42, 494, 1314
systems analysis and simulation 571, 1960, 1961
thinning out 1960
transplanting 33, 733, 1012, 1975, 2571, 2572, 2573, 2583, 4482, 5170, 6648
use of containers 8, 12, 117, 557, 758, 759, 1014, 1015, 1384, 1627, 1841, 1957, 2264, 2561, 2562, 2563, 2573, 2575, 2578, 2581, 2768, 3223, 3482, 3848, 3867, 4171, 4463, 4468, 4846, 5164, 5166, 5167, 5195, 5199, 5620, 6456, 7140, 7141
use of growth regulators 3227
watering 2559, 2566, 2573, 6463
weed control 130, 142, 367, 1954, 1991, 2561, 2582, 3226, 3847, 4486, 4529, 4530, 4533, 5163, 5167, 5621, 6556, 6560, 6562, 6568
work studies 4405
wrenching 6465
Nutrient cycle 260, 548, 1497, 1586, 1587, 1780, 2043, 2112, 2113, 2141, 2149, 2655, 2723, 2725, 2735, 2838, 2840, 3119, 3427, 3673, 3675, 3724, 3725, 3726, 3728, 3731, 3735, 3736, 3738, 3740, 3940, 4124, 4690, 5173, 5250, 5251, 5252, 5256, 5277, 5327, 5449, 5450, 5502, 5777, 5910, 6852, 6853, 6856, 6859, 6860, 6861, 6862, 6863, 6865, 6866, 7052, 7067 (*see also* Carbon cycle; Catchment areas, nutrient cycle; Nitrogen cycle; Soil chemistry, nutrient cycle)
review 3715
systems analysis and simulation 663
Nutrition, plant 3727, 3733, 3737, 3741, 5836, 6432, 6992
B 3368
Ca 654, 754, 1126, 1776, 2043, 2778, 3370, 3836, 4707, 6849
conferences, symposia 3714
Fe 661
K 250, 654, 661, 1127, 1514, 1776, 2043, 2165, 2778, 3370, 3372, 3835, 3836, 4180, 4441, 4707, 6849, 6995
Mg 1126, 1776, 2043, 3836, 4707
minor elements 18, 22, 1522, 3721
Mn 661, 705, 5257
Mo 661
N 250, 654, 661, 694, 1006, 1122, 1126, 1127, 1504, 1513, 1514, 1776, 2043, 2111, 2165, 2555, 2778, 3370, 3372, 3414, 3726, 3835, 3836, 4441, 4707, 4708, 5253, 6420, 6506, 6849, 6852, 6857, 6995
Na 1134, 3370
nutrient uptake 655, 1134, 1504, 1509, 1513, 1514, 1949, 2109, 2210, 3119, 3369, 3718, 3720, 3721, 3734, 4012, 4087, 4447, 4859, 5785, 6436, 6852, 6853
Nutrition, plant *contd.*
P 635, 654, 659, 1126, 1127, 1514, 1776, 2043, 2108, 2111, 2165, 2778, 3370, 3372, 3414, 3724, 3739, 3836, 4441, 4707, 6849, 6853, 6995
reserves 1560, 2111, 2158, 2211, 4787, 4788, 6463, 6995
S 1134, 4690, 4707
study methods 495, 635, 1513
systems analysis and simulation 3720
water/sand culture 376, 495, 3118, 3372
Zn 1126, 1127
Nuts and nut crops 586, 1057, 1811, 2011, 4810, 6313, 6625, 6652, 6653, 6654
Oils, essential 1054, 1060, 6650, 6661
Oils, fixed 1056, 2636
Old and fossil wood 4356, 4358, 5870, 7041
Oleoresins (*see* Resins)
Opossums 1255, 3022
Ornamental branches and foliage (*see* Decorative greenery, wreaths)
Ornamental trees and shrubs 8, 9, 10, 11, 35, 161, 927, 928, 929, 930, 1170, 1171, 1187, 1841, 1924, 2118, 2359, 2451, 3106, 3109, 3200, 3211, 3552, 3584, 3704, 3908, 4353, 4354, 4703, 5078, 5395, 5765, 6113, 6117, 6118, 6119, 6120, 6373, 6405, 6416, 6568, 7383 (*see also* Christmas trees; Street trees)
ÖSA forwarder 6574
ÖSA processor 6574
Osiers 587, 1887, 4068
Pakistan
Abies pindrow 5145
Acacia arabica 5208
agroforestry 2414, 5482
Bifiditermes beesoni 797
Dalbergia sissoo 5207
development, forestry 5067
Eucalyptus spp. 5583
fertilizers 5611
grazing and pasture 5435, 5436
management, forest 2414, 2416
parasites and saprophytes 5183
Populus 'I-214' 5636
P. 'I-63/51' 2418
Quercus baloot 5319
regeneration, natural 1970
remote sensing 5435
species trials 5583
vegetation types 5319, 5322, 5436
volume tables 5212
wildlife 2379, 5322
Palaeobotany 44, 2157, 3422, 7024
Palaeoecology 2803, 3426, 3430, 3432, 4118, 4357, 4814, 4815, 5870, 5882, 5884, 7041, 7043, 7044, 7045 (*see also* Vegetation, general, history)
Palms 1898, 5292, 6156, 6943, 7346
Papua New Guinea
Araucaria cunninghamii 3453
A. hunsteinii 3453
development, forestry 6309
Euphorbiaceae 1581
forest industry 6309
logging 1851
management, forest 6309
seed sources 3453
Paraguay, surveys, forest 3316
Parasites of insect pests 1682, 3635, 4972, 4973 (*see also* Bacterial diseases of insects; Bark beetles, parasites and predators; Borers, wood, parasites and predators; Fungus diseases of insects)
attractants 1714
biology and ecology 411, 1232, 1233, 1678, 1723, 2953, 3615, 4258, 4261, 4947, 4957, 4979, 4994, 5003, 5004, 7256
effect of insecticides 2358, 2982, 4274, 4975
host-finding 1714, 6035
host relations 827, 856, 1723, 3622, 4217
hyperparasites and predators 831, 3615, 4210, 4957
identification 5423
introduction/release 439, 853, 1687, 2974, 3598, 3641, 4946, 4947, 6035
laboratory rearing 4946, 4947, 5426
physiology 827
population studies and surveys 3602, 4946, 4951, 5394, 6022
Parasites of insect pests *contd.*
resistance to 831, 3603
study methods 3602, 7245
systems analysis and simulation 5394
Parasitic (higher) plants 1574, 3553, 6509 (*see also* Mistletoes)
review 5183
Pasture (*see* Grazing and pasture)
Patent, mechanization in forestry, general 6637
Pathology, plant (*see* Phytopathology, general)
Peat 980, 6348, 6506
Peatland 760, 1178, 1403, 2125, 2126, 2591, 3434, 3672, 5042, 5043, 6359, 6440 (*see also* Afforestation, peatland; Soil types, peat; Vegetation types, peatland, general)
Periodicals and serials 2455
arboreta 6134
Australia 1845
Austria 6132
biomass production 3189
Brazil 960
Canada 3709
Canada, Ontario 6140
cytology 6131
Czechoslovakia 6134
ecology, forest and forestry, general 3708
forestry 6132
Germany, East 6132
Germany, West 6131, 6132
Great Britain 6141
India 3112
Italy 3708
New Zealand 1313
silvicultural characters of trees 5871
Switzerland 6132
tissue culture 6131
Peru
agroforestry 465
Callicebus spp. 1260
Cerambycidae 4233
education and training 3784
fishing and fishery management 1860
resources, forest 3756
soil types 1260
wildlife 3756
Pesticides, general 1735, 1759
conferences, symposia 6193
phytotoxic effects 1402, 6042
testing 6392, 6393
toxic effects on animals and man 2373
Phenology 222, 353, 633, 987, 1459, 1541, 2147, 3236, 4060, 4064, 4764, 4765, 4766, 4963, 5279, 5280, 5765, 5819, 5824, 6120, 6890, 6932, 6967, 6999, 7013
research 1153, 7012
Philippines
afforestation 5644
Agathis philippinensis 3452
Albizia falcataria 4071
choice of species 2621
conferences, symposia 58
deforestation 1853
diseases, tree 2303, 4161
education and training 3782, 3783
fishing and fishery management 1860
flora/check lists 4803
forests and forestry 58, 1853, 1900, 4399
hydrology 1855
mangroves 1860
minor forest products 1860
regeneration 1964
remote sensing 2686
research 58
resources, forest 4399
rural economy 1855
Scolytidae 430
shifting cultivation 1855, 4318
Shorea agsaboensis 4111
sowing, direct 5644
vegetation types 2686
wildlife 1853
wind damage 4161
yield studies 3958
Phloem 1562, 2771, 3409, 3410, 5301, 5723, 6937, 6998
Photogrammetry, ground 6760
Photography 1831, 2679, 2680, 2681, 2689, 5688, 6681
Photoperiodism 1182, 1562, 4093

Photosynthesis 559, 633, 700, 701, 1562, 2206, 2207, 4084, 4086, 4787, 5260, 5308, 5725, 5834, 6180
bibliography 5298
measurement 28, 692, 699, 702, 1132, 2161, 2204, 2732, 4789, 5713, 5839, 6993, 6994, 6996, 7074
review 4095
study methods 692, 2161, 5305, 6997
Phylogeny 156, 5294
Physiology, plant 709, 1562, 2847, 3042, 4765 (*see also* process, function or agency concerned, e.g. Photosynthesis; Water relations of plants; Growth regulators)
book 4791
conferences, symposia 6179
study methods 5303, 5835
systems analysis and simulation 133
Phytopathology, general 152, 1187, 6179, 6420, 7123
bibliography 2870
book 4147, 5332
Phytotrons 42
Picnic areas (*see* Camping; Recreational areas)
Pigs 3655, 3661, 5028, 7278
book 7288
Pioneer species 7014
Pipelines 1134
Planning 3684, 3685, 5562, 6269
Plant geography 3433, 7047
book 4122
Plantations, general 2487, 2533
amenity aspects 1303
data recording and processing 3991, 4513
ecological aspects 1019, 2191, 2466, 4133, 6367, 7052
economic aspects 129, 466, 1964, 1977, 3088, 3795, 3941, 3991, 4504, 5564, 5581, 6307, 6788, 6799
effect of successive rotations 6299
logging 6297
silvicultural aspects 129, 1031, 1392, 1964, 1977, 2002, 2098, 2522, 2584, 2593, 2596, 2598, 2624, 2625, 3181, 3788, 4515, 5581, 6508, 6513, 6518, 7346 (*see also* Planting; Weed control in plantations)
vs. natural stands 1964, 6017
wildlife 1299, 5439
Plantations, linear 5041
Planting (*see also* Planting time/season; Spacing)
conferences, symposia 3228
economics 3176, 5199
group planting 1395, 6663
machines, tools, equipment 1026, 1437, 1439, 1833, 2452, 2476, 2595, 4503, 5197, 5199, 5200, 6504, 6512
methods 131, 132, 139, 1814, 1833, 2567, 2592, 2595, 2599, 2825, 3873, 4508, 4520, 4523, 5167, 6503, 6507, 6512, 6528, 7316
row alignment 1395
soil treatment at planting 1047, 2448, 3870
work studies 2592, 6512
Planting stock 733, 4485
age and size 572, 1182, 1393, 1426, 2575, 2578, 2592, 3851, 3870, 4474, 4475, 5169, 6648
balled 118, 1833, 6648
bare-rooted 118, 325, 375, 1017, 1047, 1051, 1398, 1972, 2265, 2452, 2825, 3130, 3132, 3133, 3237, 3848, 3873, 3874, 4518, 4788, 5166, 5167, 5168, 5169, 5170, 5178, 5619, 6461, 6515, 6516, 6517, 6524
conferences, symposia 1314, 3228
container-grown 325, 375, 557, 1018, 1051, 1397, 1398, 1788, 1972, 2265, 2563, 2825, 3130, 3132, 3133, 3237, 3848, 3867, 3873, 3874, 4308, 4465, 4470, 4518, 4846, 5166, 5167, 5178, 5619, 6515, 6516, 6517, 6524, 7325 (*see also* Nursery management, use of containers)
grading, quality 133, 135, 136, 1314, 1390, 1399, 1558, 2002, 4788, 5169, 6359, 6466, 6468, 6522
growth regulator treatments 3227
Planting stock *contd.*
handling, packing, transport 11, 131, 132, 494, 1008, 1016, 1017, 1401, 2002, 2561, 4470, 4471, 5177
measurement 494, 5171
pre-conditioning/adaptation to site 133, 558, 572, 1952, 3122, 3123, 3131, 4465, 4515, 6507
protective measures 118, 3238, 3866, 4254, 5439, 6511, 7001 (*see also* Anti-transpirants)
pruning 1047, 4477
puddling 1017
root-exposure effects 1962, 3238
seedlings vs. transplants 1009, 1393, 1396, 4509, 5176
sets and truncheons 1788
staking 3701, 6114
standard 1401
storage 135, 136, 137, 561, 562, 570, 693, 1013, 1016, 1033, 1558, 1956, 1962, 2476, 4464, 4469, 4471, 4474, 4476, 4477, 4478, 4479, 4480, 4510, 5148, 5168, 5296, 6511, 6523, 7136
study methods 42, 133, 135, 136, 693, 1390
systems analysis and simulation 571
vegetatively propagated 3130
wildings 3240
Planting time/season 137, 570, 4476, 4507, 4510, 5168, 5584, 6523
Ploughing 1403, 3248, 4522, 5182
Plus-trees 5939
PN-2 cultivator 3905
Pneumatophores 5914
Poisonous species 3010
Poland
Abies alba 355, 3583, 6502
afforestation 1130
Armillaria mellea 381
bibliography 3111
biological control 1678, 1751, 3616, 4991
breeding, tree 355
burning, controlled 1150
climate 3344, 4862
Coleophora laricella 1222
dendrochronology 7391
diseases, tree 381, 707, 1131, 2163, 3631, 4189, 4796, 4862
documentation and information services 3111
drainage, land 2844
ecology, forest 793
Euproctis chrysorrhoea 3616
fertilizers 1006, 3835, 3836
forest administration 4675
forests and forestry 946
fungi 1618
hydrology 3670
insects 1131, 1211, 1678, 1720, 2163, 2932
irrigated stands 3880
labour, forest 4675
Lymantria monacha 7214
machines, tools, equipment 1394
microclimatology, micrometeorology 1524
national parks 1720, 4862, 5076
nature conservation and reserves 3321
Orgyia antiqua 3615
phenology 2147
Picea abies 987, 2827, 2834, 2844
plant protection 5432
planting 1395
planting stock 1394
pollution, air 1129, 1131, 1524, 1678, 1720, 2834, 3376, 4189
pollution, general 1522, 3375
Polygraphus polygraphus 3631
productivity, forest 3289
provenance studies 987, 1222
Prunus serotina 1434
Quercus petraea 4816
recreation, forest 5076
regeneration, natural 6502
roads 2698
seed production 989
soil types 1129, 1522, 3352
stand characteristics 2586
surveys, forest 2683, 3321
thinning 6586
trees and shrubs for 2932
wildlife 5039
Poland *contd.*
yield studies 2650, 4602, 4796
Pollarding 2620
Pollen 783
analysis and identification 4815, 5890
anatomy, morphology 287, 1172, 2171, 2251, 4779, 4782, 5293, 5896, 6970
chemistry 6982, 7010
collection, storage 3128
culture 547, 6427
dispersal 2804, 4812, 7038
formation and development 2782, 2784, 4102, 4420, 6411
germination and viability 2171, 2251, 4097, 4103, 4104, 4715, 5819
physiology 4715
spectra 1172, 2803, 2804, 3432, 4118, 4812, 4814, 7038, 7043, 7044, 7045
study methods 4097
Pollination 305
animals effecting 1852, 4098, 5865
cross vs. self 2169, 4422, 7110
fertilization, (in)compatibility 303, 2166, 7095, 7116
open 1852
study methods 1604, 4422, 7012
techniques and equipment 732, 743, 1352, 4142, 5605, 7011, 7012
Pollution, air
bibliography 6878
book 259, 1128
conferences, symposia 258, 2738, 6187
damage, effect on plants 258, 259, 261, 262, 667, 1128, 1186, 1516, 1518, 2117, 2124, 2741, 3379, 4023, 4710, 5788, 6867
Abies 1131, 3378, 3387, 5856
Acer 666, 3388, 4712, 5796
Ailanthus 3384
Alnus 4714, 5794, 6876
Betula 20, 666, 3374, 3383, 4712, 4714
Buxus 5262
Crataegus 4714
Cryptomeria 5794
Eucalyptus 3383, 4717
Fagus 6882
Fraxinus 664, 2740, 3380, 3383, 3385, 6876
Juniperus 5262
Larix 3388
Liriodendron 3380, 6876
Picea 1132, 2729, 2739, 2836, 3378, 5787, 5856, 6371, 6871, 6876
Pinus 664, 1132, 1524, 2068, 2734, 3376, 3382, 3383, 4713, 4714, 4715, 4719, 5260, 5262, 5767, 5794, 5795, 6884, 6885
Platanus 6876
Populus 263, 264, 367, 2732, 3380, 3386, 3388, 4020, 4712, 4714, 6875, 6876
Prunus 664, 4718
Quercus 664, 666, 4712, 4714, 5794, 7198
Robinia 4714, 5796
Taxus 1132, 1133, 5262
Tilia 5796
Ulmus 3388
detection, measurement 1132, 1516, 1857, 6869
dust 664, 748, 1300, 1843, 1857, 1879, 4710, 5261, 6873
ecological effects 259, 261, 262, 668, 748, 1109, 1129, 1518, 1521, 2116, 2117, 3379, 6867, 6881
economics 4023
effect on disease 259, 261, 1131, 2834, 3376, 4189, 5402, 7198
effect on increment and yield 259, 261, 666, 1521, 2115, 2727, 2728, 2729, 2730, 6887
effect on pests 259, 261, 1678, 2114, 2115, 2834, 3376, 3590, 4951, 5402
effect on wood etc. 1843
forest or slash fires 672, 4057
gases and fumes 258, 367, 1131, 1879, 2728, 4710, 4714, 5788, 6187, 6362, 6823, 6867, 6873
Cd 4715
Cu 4712
F 262, 667, 2114, 2115, 3387, 3590
HF 5856
Ni 4712

Pollution, air *contd.*
gases and fumes *contd.*
NO 2122
NO_3 2122
O_3 262, 263, 1516, 2122, 2734, 2740, 3380, 3385, 3386, 4713, 4717, 4718, 5795, 6875, 6884, 6885, 6887
S 5856, 7198
SO_2 262, 666, 1516, 2116, 2732, 2734, 2739, 2740, 2741, 2836, 3374, 3376, 3378, 3379, 3380, 3382, 3383, 3384, 3386, 3388, 3590, 4020, 4712, 4717, 4719, 5260, 5262, 5787, 5795, 6371, 6871, 6876, 6881, 6882
radioactive matter (*see* Radiation, ionizing, effect, damage)
resistance to 2119, 4714, 6371, 6869, 6873, 6880
review 1518, 6869
role of forest 258, 259, 260, 667, 1128, 1300, 1879, 2748, 6258, 6869, 6878
salt spray 257, 264, 5767
study methods 20, 1843, 1879, 4715, 4716
systems analysis and simulation 2122
Pollution, general 263, 3700, 4360, 5323, 5789
from recreational use 1832, 5486
from vehicles 921, 6870
industrial and town waste 907, 931, 3381, 3666, 4308, 5258
role of forest 663, 3375
Pollution, soil 265, 1134, 1518, 1522, 3059, 3382, 4019, 4442, 4459, 5261, 5794, 6870, 6879
Pollution, water 875, 1269, 1781, 2120, 2737, 4442, 4711, 5051, 5486, 5790, 5791, 6067, 6068, 6872, 6886
heavy metals 4304
Polyploidy (*see* Breeding, tree, use of ploidal variants; Chromosome studies; Cytology; Genetics, plant, general, ploidal effects)
Portugal
credits and subsidies 3176
Cupressus spp. 178
diseases, tree 178, 786, 4175
legislation 3176
Phoracantha semipunctata 7219
planting 3176
Scirrhia pini 5370
silviculture 3266
Powder-post beetles (*see* Borers, wood)
Precipitation 601
artificial 2093
hydrological aspects 453, 891, 1123, 1272, 1586, 1777, 1779, 1780, 1787, 2103, 3028, 3029, 3671, 3998, 4291, 4704, 5248, 5250, 5251, 5447, 5457, 5459, 6076, 6078, 6832, 6852, 6863, 6865, 7296
injury by 20, 3354, 3999, 5792, 5793, 6868
measurement 1779, 3998, 4291
solutes in 453, 667, 1109, 1518, 1521, 1586, 1780, 1879, 2093, 3354, 3673, 3999, 4704, 5250, 5251, 5252, 5787, 5792, 5793, 6823, 6824, 6852, 6863, 6865, 6867, 6868
systems analysis and simulation 6076
Predators of insect pests 2357, 6036
attractants 428, 839
biology and ecology 813, 1678, 2952, 5422, 5424, 6027, 7209
dispersal 791
host-finding 5391
introduction/release 1743, 1745, 1746, 1747, 1750, 1751, 5425
population studies and surveys 791, 1741, 1770, 3574, 7210, 7247
Private forest(ry) 45, 56, 57, 503, 968, 974, 1106, 1480, 2057, 2498, 2693, 3156, 3181, 3341, 3778, 4386, 4387, 4391, 4397, 5089, 5099, 5227, 5534, 5740, 6228, 6755, 6800
Production, biological (*see* Biomass production)
Progeny trials (*see* Breeding, tree, progeny testing)
Propaganda (*see* Public relations)
Propagation, vegetative 93, 1882, 2187, 2248
air-layering 2547, 3827, 3831
Propagation, vegetative *contd.*
bibliography 2546
bud culture 24, 4440, 6155
budding 96
clonal degeneration 337, 338, 5607, 5609
cuttings, root 994, 996, 1933, 4430, 4432, 6376, 6423, 6426, 6429
cuttings, shoot 14, 17, 104, 1933, 3205, 3825, 4439
Acer 6417
Alnus 6417
Anisoptera 3826
Araucaria 6418
Bambusa 1447, 4434
Betula 2554, 5608
Casuarina 994
Chamaecyparis 3206
Cupressus 997
Dalbergia 1938
Dipterocarpus 3826
Juniperus 5151
Leucaena 3829
Picea 337, 338, 340, 1361, 2548, 3207, 3468, 4436, 5151, 5610, 6417, 6425
Pinus 2550, 3208, 4435, 6424
Populus 201, 1005, 1936, 1940, 4431, 4483, 5151, 5152, 6875
Prunus 6417
Pterocarpus 3829
Quercus 4438
Salix 6415
Shorea 3826
Sinocalamus 1447
Taxodium 6421
Tilia 6417
Tsuga 3128, 3130, 4838
Vatica 3827
grafting 97, 105, 544, 545, 998, 1935, 1937, 3465, 3532, 3533, 3828, 3829, 3830, 3833, 4450, 4842, 5149, 5610, 6416, 6419, 6423, 7004
layering 2547
needle fascicles 23, 4435
review 106, 1939
tissue culture 24, 25, 29, 92, 95, 96, 98, 99, 100, 101, 102, 106, 318, 339, 546, 547, 995, 1362, 1363, 1934, 2249, 2546, 2549, 2551, 2552, 2553, 2891, 3128, 3203, 3204, 3209, 3832, 4141, 4151, 4410, 4429, 4433, 4437, 5150, 5297, 5357, 5358, 5359, 5607, 5610, 5932, 6145, 6152, 6413, 6414, 6420, 6427, 6428, 6430, 7073, 7114
topophysis/cyclophysis 741, 1665
vs. propagation from seed 3834
Protection forest 1264, 1265, 1784, 2382, 2383, 2384, 2416, 2484, 2813, 3027, 3051, 3052, 3053, 3054, 3055, 3667, 4423
Protection of forests, general 2315, 3701, 3882, 4288, 7195
book 860
Protozoa 405, 1740, 2987, 3603, 4217, 4966 (*see also* Soil biology, protozoa)
Provenance studies 89, 2248
Abies spp. 6176, 6177
A. alba 355, 5858, 6168, 6169, 6174, 6175, 6384
A. balsamea 309, 1912, 2318, 7105
A. bornmuelleriana 6172
A. grandis 354
A. procera 2542
Acacia mangium 3461
Acer saccharum 536
Alps, European 2865
Araucaria spp. 2577
Australia 2532
Australia, Tasmania 3448
Austria 6176, 6177
Bangladesh 3192
Belgium 1923
Betula pendula 2259, 3807
Brazil 5585
Bulgaria 6370
Callitris spp. 2577
Canada 1913
Canada, Manitoba 6378, 6379, 6380, 6381, 6382, 7104
Canada, Maritime Provinces 984, 2530
Canada, New Brunswick 1912
Canada, Newfoundland 2525, 3191, 6383
Canada, Ontario 136, 3194
Canada, Quebec 7105
Castanea sativa 7112
Provenance studies *contd.*
China 5594, 7121
Cryptomeria japonica 6385
Cunninghamia konishii 6386
Czechoslovakia 6175
Denmark 2542, 5858, 6174, 6389, 6390
Eucalyptus spp. 2567, 2577, 3192, 3261, 5585
E. alba 85
E. citriodora 533
E. deglupta 85
E. globulus 3448
E. urophylla 85
Fagus sylvatica 91
Fiji 1917
Finland 3807
France 91, 350, 354, 987
Fraxinus americana 2740
F. pennsylvanica 534, 2740, 7004
Germany, East 2534
Germany, West 1351, 2250, 2311, 3465, 3467, 3809, 5586, 6384
Gmelina arborea 2577
India 3192
India, Uttar Pradesh 1920
Juniperus virginiana 3193
Kenya 2567
Larix decidua 1222, 2311, 3467
L. leptolepis 1923, 3822, 5139
Morocco 88
Norway 1348, 1349, 2259, 5139
Picea abies 327, 330, 342, 532, 984, 987, 1351, 1515, 1923, 2250, 2530, 2865, 3809, 6232, 6813
P. engelmannii 3199
P. fennica 532
P. glauca 136, 2525, 6379, 6382
P. mariana 136, 6380, 6383, 7104
P. obovata 532
P. pungens 1182
P. rubens 1913, 3191
P. sitchensis 1348, 3450
Pinus spp. 1920, 2249, 2536, 2537, 2577, 2580, 5584, 5585, 6375
P. banksiana 136, 3194, 6378
P. caribaea 1917
P. contorta 329, 3195, 5868, 7140
P. elliottii 535
P. monticola 1918
P. nigra 6390
P. pinaster 88
P. ponderosa 2531, 5142, 7140
P. strobus 310, 1602, 3808
P. sylvestris 314, 328, 330, 1349, 1606, 5591, 5868, 6388, 7076
P. taeda 535, 4414
Poland 355, 987, 1222
Populus spp. 5594
Prunus serotina 7122
Pseudotsuga menziesii 307, 308, 350, 1182, 1919, 1923, 2532, 2534, 5586, 5593, 6232, 7097
P. menziesii glauca 2526
Puerto Rico 85
Quercus spp. 1345
Q. macrocarpa 747
Q. robur 6370, 6389
review 5591
Sabah 3461
South Africa 533, 535
Southwest Africa 533
Sri Lanka 3192
Sweden 327, 328, 329, 330, 342, 3195, 5868
Taiwan 2249, 2536, 2537, 5593, 6386
Tanzania 2577
tropical 3196
Tsuga heterophylla 1921
Turkey 6172
Uganda 2580
Ulmus pumila 7121
USA 2531, 2740
USA, California 5584
USA, Colorado 3199
USA, Georgia 4414, 6385
USA, Idaho 1918, 1919, 2526
USA, Illinois 3808
USA, Lake States 309
USA, Michigan 308, 314, 1182, 1606
USA, Nebraska 307, 747
USA, North Dakota 3193
USA, north-eastern 310
USA, Oregon 1921

Provenance studies *contd.*
USA, Pennsylvania 1345
USA, South Dakota 5142
USA, Vermont 2318
USA, Washington 2526
USSR 6388
USSR, European region 532, 5591
USSR, Russian region, central 7076
Vietnam 6375
Pruning 26, 6604
economics 579, 6608
effect on growth and form 2619, 2635, 5519, 5657, 6605, 6606, 6701
effect on wood characteristics 580, 5658, 5797, 5955
machines, tools, equipment 4543, 5201, 6607, 6608, 6609
natural 6622
planning, organization 6608
relation to disease 2260, 4876, 4882, 4911, 5361
relation to pests 3623
work studies 4543, 6607
wounds, occlusion 2449, 4876, 5658, 6609
Public relations 975, 1025, 4327
Puerto Rico
choice of species 85
provenance studies 85
urban and suburban forest(ry) 5078
Pulp and paper industry, general, pollution problems 6068
Pulping materials
Eucalyptus 5140
Gmelina 5140
Pinus 5140
Pulpwood production 1049, 5140
economics 75, 4514
silviculture and management 4514, 6299
Quarantine, plant 7144
Rabbits and hares 1402, 6499, 7284, 7287
Radiation, cosmic 935
Radiation, ionizing, effect, damage 739, 4686, 6888
Radiation, solar 935, 1856, 6903
Radioactive isotopes 226
nuclear fall-out 2735, 3389, 5789
systems analysis and simulation 2735
Rail transport 3103, 3676
Railside plantations 3103
Railways, forest 2494
Rain damage 3998
Rain forest (*see* Vegetation types, rain forest)
Rainfall (*see* Precipitation)
Range management (*see* Grazing and pasture, management)
Rats (*see* Mice, voles and rats)
Rattans (*see* Canes and rattans; Palms)
Reaction wood 2744, 6946
Reclamation of degraded land 81, 454, 455, 470, 904, 906, 907, 1278, 1790, 1792, 1794, 1795, 1796, 1798, 2396, 2398, 2399, 2400, 2401, 2562, 2701, 2715, 3059, 3062, 3063, 3090, 3680, 3912, 4019, 4304, 4305, 4309, 4310, 5062, 5063, 5437, 5466, 5599, 6095, 6096, 6358, 6852, 6853, 7316, 7317, 7319, 7321, 7324, 7325, 7327, 7328
bibliography 4306, 7329
Recreation, forest 487, 488, 1302, 1827, 1828, 1831, 2424, 2430, 2431, 2432, 2433, 2434, 2435, 2437, 2440, 2443, 2444, 3098, 3309, 6258, 7369
Australia, Western Australia 5071
Bangladesh 5069
bibliography 2442, 5072
book 6135, 7364
Canada 4396
Canada, British Columbia 4342
Canada, Ontario 4343
conferences, symposia 2426, 6195, 6196
damage 485, 486, 1825, 1832, 3696, 4343, 4346, 5076, 5486, 7367, 7370, 7371
economics 1829, 2417, 2425, 2429, 2436, 2441, 3099, 3101, 4344, 4345, 4669, 7364
Germany, West 3697, 4340, 5085
Japan 7362
New Zealand 6302
Poland 5076
Recreation, forest *contd.*
systems analysis and simulation 1301, 2425, 6110
USA 3095, 5072, 5093
USA, California 4339, 4669, 7366
USA, Colorado 5486
USA, Idaho 4944
USA, Michigan 5074
USA, Montana 3102, 4341
USA, North Carolina 7367
USA, Oregon 7368
USA, Pacific Northwest 5485
USA, Tennessee 7367
USA, West Virginia 5075
USA, western 4338, 6109
USSR 4345, 7364
USSR, Russian region, northern 3100
USSR, Ukraine, Crimea and Moldavia 4344, 6110
Recreational areas 1830, 2117, 4352, 6111
equipment/installations 3100
systems analysis and simulation 1826
Recruitment (ingrowth) and recruitment period 3941
Regeneration, artificial 195, 506, 1391, 1400, 3863, 4397
assessment 1020, 1028, 1974, 2596, 3132, 3133, 3872, 6514
biotic factors 1029, 4506
combined with agriculture 1280, 1286, 1856, 2420, 5478
economics 3245, 3995, 4518, 5199
mechanization 1892, 6476, 6534
relation to site factors 1020, 1029, 1288, 1963, 2596, 2626, 3872, 3898, 4506, 5173, 6360, 6522
relation to types of felling and logging 1031, 1892, 3872, 3898
systems analysis and simulation 1027
Regeneration, artificial vs. natural 119, 179, 180, 1051, 1964, 2824, 3762, 3853, 3859, 3873, 3874, 3952, 4788, 5632, 6634
Regeneration, natural 567, 568, 1021, 3129, 3862, 4309, 4562, 5174, 5523, 5662, 5913 (*see also* Coppicing; Seedlings; Suckering)
advance growth 123, 127, 2588, 2623, 2752, 3234, 3858, 3863, 3889, 3898, 3952, 4492, 4493, 4494, 4497, 4499, 4788, 5175, 5622, 5628, 6409, 6410, 7015, 7032
assessment 1020, 1388, 1860, 1969, 2783, 3233, 3855, 3860, 3889, 3898, 4493, 4498, 4500, 4628, 5690, 6291, 6409
biotic factors 442, 566, 569, 885, 1762, 2242, 2623, 3236, 4827, 5322, 5950, 6366, 6501, 6502
coppice (*see* Coppicing)
economics 1964, 5199, 6366
preparatory measures 123, 140, 188, 1020, 2590, 2626, 2752, 3235, 3268, 3861, 4495, 5622
relation to fire 124, 1169, 2589, 2626, 2818, 4059, 4499, 4827, 5030, 6495, 6926, 6928
relation to site factors 126, 140, 661, 1020, 1023, 1386, 1434, 1963, 1968, 1970, 1971, 2626, 2783, 2823, 3898, 3937, 4025, 4140, 5173, 5322, 6360, 6364, 6496, 6497, 6498, 6500, 6502
relation to types of felling and logging 124, 661, 1169, 1387, 1389, 1416, 1435, 1892, 2588, 2590, 2818, 3854, 3855, 3856, 3857, 3861, 3898, 3937, 4017, 4022, 4491, 4496, 4501, 5597, 5627, 5628, 5629, 5631, 6363, 6407, 6500
seedbed conditions 710, 1386, 2626, 2721, 3234, 3235, 3876, 4022, 4491, 4501, 6407, 6501, 6538
thinning out 125, 3864
vegetative 1022, 2190, 5950
Regeneration surveys 3988, 4666, 6216
Reindeer 3663, 4284
Reinforcement planting (*see* Beating up)
Relascopes 2682, 3918, 3921, 6762 (*see also* Angle-count; Mensuration, forest, instruments, multi-purpose)
Remote sensing 1866
aircraft instruments 3984, 3989
amenity studies 4348
book 245, 6769
conferences, symposia 3330, 3979, 4658, 6198
Remote sensing *contd.*
estimation of areas 5749, 6767, 6774
estimation of stand parameters 2685, 3286, 3329, 3986, 4624, 4633, 4635, 4662, 5520, 6167, 6763
fires, forest 4756, 5270, 5809
forest-injury studies 244, 619, 1475, 1476, 1478, 1729, 2068, 2687, 2688, 3325, 3332, 4046, 4661, 4667, 4668, 4873, 4944, 4984, 5752, 6764, 6766, 6768, 6770, 6772, 6773, 6778
infra-red 620, 2068, 2069, 4036, 4659, 4668, 5231, 5270, 5809, 6766
instruments and equipment 1094, 2069, 2689, 3981, 3987, 4036
interpretation of data 619, 621, 624, 1097, 1474, 2067, 2070, 2684, 2690, 3325, 3327, 3331, 3332, 3333, 3334, 3335, 3336, 3753, 4300, 4659, 5026, 6198, 6775, 6777, 6783
land use 243, 245, 621, 3330
laser 3326
mapping 1099, 3320, 3325, 3328, 3753, 5231, 5234, 5435, 6209, 6247, 6771, 6776, 6777
photo interpretation 244, 620, 727, 1094, 1095, 1475, 1859, 2688, 3753, 3988, 4667, 4873, 6765, 6777
photography 619, 622, 623, 1098, 1099, 1474, 1476, 1477, 1478, 2067, 2685, 2688, 2689, 2690, 3286, 3320, 3328, 3980, 3981, 3986, 3987, 3988, 4627, 4633, 4635, 4659, 4660, 4661, 4662, 4664, 4666, 4668, 4944, 4984, 5435, 5520, 5752, 6167, 6209, 6766, 6768, 6770, 6771, 6772, 6773, 6774, 6780
pollution 4668, 6766
radar 626, 2070
review 6764
sampling methods 621, 2685, 3980, 4661
satellites 624, 626, 2686, 3324, 3327, 3328, 3331, 3332, 3333, 3335, 3336, 4657, 4659, 4663, 5026, 5234, 5239, 5749, 6198, 6767, 6776, 6777, 6781, 6783
scanners 626, 3324, 6776
terrain and soil studies 245, 5435
vegetation studies 623, 727, 1098, 1099, 1475, 2684, 2686, 3330, 3331, 3333, 3334, 3336, 3988, 4663, 4666, 5026, 5231, 5234, 5235, 6768, 6776, 6780, 6781, 6903
Repellents, bird and mammal 1402, 1759, 1769, 3201, 6058, 6367
Repellents, insect 2355
Reproductive behaviour of plants 282, 2168, 2173, 4099, 5824, 5866, 6408, 6409, 7009, 7011
apomixis, parthenocarpy 1852
Reptiles 272, 888, 1253
Research, forest(ry) 482, 632, 1559, 1861, 2414, 2415, 2416, 3305
Africa, Sahelian zone 1291
Asia, tropical 3788
Australia 42
bibliography 5081
Canada 5081
Canada, Ontario 5508
conferences, symposia 6162, 6194, 6200, 6201, 6202
Costa Rica 460
Finland 6142, 6143, 6254, 6322
Gambia 3712
Germany, East 2476, 2477, 6249
Germany, West 3712, 3790, 6315
Great Britain 972, 1876, 3767, 6228
Hungary 5626
Italy 1904
Malaya 5592, 6321
Mexico 4642
Netherlands 1887, 6104
Nigeria 2491
Norway 5792, 6868
Sweden 62, 2195, 6317
Taiwan 7301
Tanzania 6287
Togo 3712
USA 195, 1337, 1902, 3712
USA, Florida 959
USA, Hawaii 521
Reserved forest 6104
Reservoirs, ponds and dams 1774, 1859, 5249

Reservoirs, ponds and dams *contd.*
plantations round 1269, 3581, 7291, 7347
Resin-tapping 5329
economics 2637, 5205
effects 1442, 5205
equipment 1445, 5201
methods and yields 1058, 1059, 1442, 1443, 1444, 1445, 2637, 3279, 3280, 3281, 4560, 4561, 5205, 5434, 5679
potential yields 6656
work studies 6656
Resins 7100
chemistry and properties 3413, 5313, 6024
formation and secretion 279, 7002
location, distribution 1445
relation to insects 2637, 5434, 6024, 6657
Resources, forest 517, 518, 519, 524, 528, 529, 949, 951, 952, 1281, 1284, 1290, 1328, 1329, 1866, 1896, 2072, 2074, 2076, 2488, 3150, 3165, 3167, 3308, 3309, 3320, 3750, 3753, 3756, 4365, 4398, 4399, 4400, 5093, 5096, 5536, 5547, 5554, 5558, 5559, 6135, 6239, 6290, 6291, 6292, 6300, 6307, 6324, 6346, 6939, 7336 (*see also* Statistics, forest)
conferences, symposia 516
systems analysis and simulation 3149
Respiration, plant 28, 702, 2161, 4084, 5303, 5713, 5725, 5863, 6180, 6993
bibliography 5298
systems analysis and simulation 2205
Review
Adansonia digitata 6934
arid zones and deserts 5907
Bacillus thuringiensis 1241
bark beetles 3570
biomass production 3805
birds 1259
breeding, tree 4141
Ceratocystis fagacearum 2896
Coleosporium spp. 4917
decay in trees 7167
ecology, plant 4135
Endothia parasitica 2295
erosion 5461
fire effects 4823
flooding 3367
frost resistance 632
fungus diseases, general 4826
gas regime of plants, internal 1525
genetics, plant, general 4141
hydrology 5454
insect pests of trees 173, 437, 1209
inventory, forest 3752, 4645
irrigation, with sewage 573
landslides 5461
management, forest 2628
nutrient cycle 3715
parasitic (higher) plants 5183
photosynthesis 4095
Picea jezoensis 6373
Pinus pinaster 88
plantations, general 4515
pollution, air 1518, 6869
propagation, vegetative 106, 1939
provenance studies 5591
remote sensing 6764
Seiridium cardinale 171, 2910
silviculture 2628
Sirex noctilio 3635
site-class assessment 1461
site preparation 120
species trials 6373
succession 4824
synecology 4822, 4824
Taxus baccata 1174
termites 1680
virus diseases of trees 1664
water relations of plants 3366, 3367
wounds, plant 1999
Rights of way for power lines, roads 144, 923, 1042, 1988, 2605, 2620, 3108, 3689
Ring-barking (*see* Girdling)
Rings, growth 224, 227, 228, 229, 235, 933, 1312, 1489, 2661, 2728, 2767, 4565, 4585, 5821, 5889, 6669, 6892, 6898, 6938
Riverside plantations 5050
Roads
amenity aspects 1304, 1834
Roads *contd.*
development policy 2698
ecological aspects 6065, 6496, 6497
economics 1483
erosion effects 897, 1304, 3678, 4302, 5194, 6065, 7306
ice/snow 1517
lay-out and planning 147, 599, 5750, 6065
relation to tree injuries 923
salting 265, 665, 1519, 2118, 2123
systems analysis and simulation 599
Roadside plantations 407, 665
Rodents 138, 605, 1255, 4281, 4288, 6392, 6393, 7266
Romania
biological control 1747
Earomyia grusia 2977
E. impossibilis 2977
Lymantria dispar 1738
Root and butt rots 165, 175, 3125, 3376, 4881, 5512, 5513, 7166
anatomical studies 1193, 7156
assessment 3500, 4158, 4162
biology and physiology 2276, 2283, 4885, 4886, 4887, 5960
conferences, symposia 1629, 1630, 1631, 1632
control 2274, 2284, 4163, 4196, 4879, 4884, 7165
damage by 765, 2882, 4164, 4165, 5349, 5961
detection 389, 1193
ecology 1192, 1193, 2277, 2886, 4877, 4884, 5349, 5961, 7162, 7163
effect on increment and yield 2623
effect on wood 7156
interaction with fungi or bacteria 389, 4163, 5348
interaction with insects 2883
physiological effects 2284, 4875
resistance to 2276, 2284, 4889
role of wounds 4161, 4287
soil-borne infection 380, 2877, 4164, 4165, 7159, 7160, 7161
study methods 4889
symptoms 765, 4884, 5960
Roots
adventitious 95, 2149, 5312, 5820
aerial 2149
anatomy 1564, 2162, 4075, 4777, 5820, 6943 (*see also* Rootwood)
chemistry 1561, 2124, 2284, 2608, 6442
competition 3744
damage by 2451
deformation 278, 1564, 2153, 2581, 2825, 3848, 3873, 3874, 6515, 6516, 6517
diseases and disorders 278, 690, 769, 772, 1033, 1192, 1193, 2273, 2311, 2781, 2881, 5606, 5846, 5847, 5848, 5849, 5850, 7169
grafts and grafting, natural 278
growth and development 33, 95, 135, 136, 687, 992, 1406, 1464, 1558, 2111, 2211, 2768, 3406, 3723, 3744, 3848, 3873, 3874, 4003, 4523, 4524, 4682, 4768, 5584, 5948, 6455, 6510, 6817
initiation 14, 2554
injury, mechanical 769, 5076, 5606
mechanics 634, 4721, 4722
nodules 373, 760, 2162, 2270, 3483, 3484, 3486, 3492, 3493, 3494, 3495
pests 1236, 2213, 4230
physiology 33, 1513, 1558, 1561, 2124, 2210, 2554, 2608, 3120, 4469, 5312
pruning 559, 690, 3846
quantitative measures 634, 1406, 1464, 1586, 2052, 2212, 2831, 3290, 6442
shoot relations 278, 992, 3840, 5171
soil/water relations 255, 653, 1192, 1193, 1493, 2210, 3677, 3722, 4700, 6845
study methods 135, 136, 1513, 3147, 3148, 6206
systems, distribution 560, 687, 1192, 1513, 1547, 1586, 2052, 2766, 3873, 3874, 4019, 4071, 5629, 6544, 6846, 6931
uses and products (*see also* Rootwood)
Rootwood 6942, 6948
Rot fungi (*see* Decay fungi)
Rotation 2032, 2627, 2670, 4619, 4621, 4623, 5254, 5581, 6629, 6750, 6795, 6796, 6798 (*see also* Plantations, general, effect of successive rotations)
Rousseau mulcher 3272
Royalties (*see* Stumpage value and fees)
Run-off 1270, 1858, 2389, 3028, 3351, 3669, 3670, 4291, 4292, 4301, 5449, 7295, 7300 (*see also* Streams)
relation to soil 451, 4048, 5044, 5058
Rust diseases 2901, 2915, 6188, 7148, 7176
assessment 4932
biology and physiology 2296, 2297, 2298, 2300, 2900, 2907, 3520, 3521, 3523, 4168, 4917, 4925, 4930, 6185
conferences, symposia 3513
control 1195, 1647, 2903, 3518, 4169, 4907, 4920, 7184
damage by 4169
distribution maps 4907
ecology 1202, 2907, 4902, 4932, 7184
effect on increment and yield 4906, 4907, 4920
forecasting 1654
resistance to 315, 394, 731, 781, 1195, 1197, 1609, 2899, 2902, 2921, 3514, 3515, 3516, 3517, 3519, 3520, 3521, 3522, 3528, 3530, 3541, 4170, 4171, 4906, 4908, 5356, 5359, 5373, 5966, 5969, 7178, 7189
study methods 1196, 2300, 3522, 3540, 4171, 5357, 5358, 5359
symptoms 2298, 4908, 4917, 5356
systems analysis and simulation 2905, 4907
taxonomy 2296
Rwanda
agroforestry 6097
charcoal 2192
deforestation 5116
forests and forestry 6366
fuel resources 5107, 5116
vegetational history 2192
Ryukyus
Dendrolimus spectabilis 2949
forests and forestry 3164
Quercus miyagii 3232
silviculture 3230, 3231
Sabah
Acacia mangium 3461
bamboos 5554
book 2120
Calamus spp. 7019
Chionanthus spp. 2794
Daemonorops spp. 7019
fishing and fishery management 1771
flora/check lists 720, 2794
mangroves 1771, 2120
nature conservation and reserves 1771
pollution, water 2120
provenance studies 3461
species trials 3461
Safety (*see* Accidents and their prevention)
Salemer Astfix trimmer 6646
Salt injury, tolerance 40, 252, 257, 265, 665, 1519, 2118, 2123, 2401, 2402, 4066, 4360, 5243, 5295, 5767, 6363, 6542, 6817 (*see also* Pollution, air, salt spray)
Salvage fellings and logging 1412, 1690, 3089, 3347, 4402, 5752
Samoa
forests and forestry 6226
international aid and collaboration 6226
Sample-plot technique 616, 1090, 1458, 2015, 4653, 6761
Sand dunes 5467, 7314 (*see also* Afforestation, sand dunes; Vegetation types, dune)
Sanitation fellings 2683, 3376
Sap 6207
properties 3642
tapping 4369, 6655, 6658
Sap sugar 3278, 6658
Sapwood
chemistry 5831
physiology 2159
quantitative measures 1452
sapwood/heartwood transition 2159
Sarawak
Chionanthus spp. 1570
forests and forestry 4400
insects 7199
logging 1851

Sarawak *contd.*
peatland 126
regeneration, natural 126
resources, forest 4400
rural economy 1855
shifting cultivation 1855
termites 1851
vegetation types 126
Sardinia
diseases, tree 4898
Pinus radiata 4898
Savanna (*see* Vegetation types, savanna)
Saws/sawing studies
chain saws 1436, 3792, 4543, 6333, 6340
clearing saws 143, 3903
vibration/noise 6340
Scaling (*see* Measurement of roundwood)
Scandinavia
breeding, tree 348
fire 5802
insects 5386, 7201
palaeoecology 5882, 5884
pests, general 5386
Picea abies 5882, 5884
regeneration 6534
site preparation 6534
Scholl plant lifter 3240
Scholl planting machine 3240
Scrub (*see* Degraded forest and scrub; Vegetation types, scrub)
Secondary (second-growth) forest 1169, 4502, 7015
Seed 1351, 2871
anatomy, morphology 2175, 2545, 2770, 3200, 5596, 6401
book 5869
centres and sources of supply 1919, 2542, 3192, 3202
certification 2248
chemistry 538, 2254, 3416, 3417, 3823, 6401, 6422, 6988
collection 537, 989, 1357, 2009, 2248, 2561, 3271, 3451, 3453, 3454, 3455, 3456, 3460, 3462, 3463, 3816, 3817, 5144, 5600
conferences, symposia 5144
diseases 762, 763, 990, 1627, 1930, 2271, 2541, 4867, 4868, 4869, 4870, 4871, 5342
dispersal 1386, 2381, 3419, 3420, 4797, 5310, 5597, 5869, 6402
dormancy and longevity 2167, 7014, 7015
edible 586, 2636, 3823
factors affecting production 6, 334, 539, 543, 1930, 2251, 2252, 2782, 5143, 5864, 6410, 6411
forecasting production 6406
germination 90, 2167, 2538, 2561, 2583, 3420, 3824, 6542
Abies 5145
Acer 1358, 1360
Alnus 1927
Artemisia 5599
Atriplex 5599
Cassia 1924
Cedrus 1928
Cercocarpus 5599
Chlorophora 3814
Chrysothamnus 5599
Cowania 5599
Cunninghamia 6386
Delonix 1924
Dendrocnide 4531
Dipterocarpaceae 3816
Enterolobium 1924
Eucalyptus 1929, 5243
Fallugia 5599
Gmelina 7014
Intsia 2170
Lagerstroemia 2545
Larix 3822
Menodora 5599
Ormosia 1924
Peltophorum 1924
Picea 710, 3813, 6988
Pinus 541, 739, 1359, 2535, 2721, 3812, 4421, 5342, 5604, 6394, 7014
Populus 1931, 2543
Prosopis 988, 5601
Quercus 3223
Sapium 7014
Sarcobatus 5599
Seed *contd.*
germination *contd.*
Schima 2544
Sphaeralcea 5599
Styrax 7015
Symphonia 5148
Tectona 2540
Tsuga 3121
Vaccinium 3911
Vitex 7014
Zelkova 1925
growth regulators 6, 542, 6394, 6401
handling, processing 1015, 2248, 2561, 2583, 3223, 3271, 4421, 4425, 5167, 5598
husbandry, general 6405
identification 3202, 5874, 6061
irradiation 6396
methods of inducing 2011, 5309
periodicity 992, 1356
pests 540, 876, 990, 1673, 2344, 2973, 3643, 3653, 4204, 4211, 4797, 5027, 6061, 6392, 6393
physiology 1355, 2535, 3121, 6422
population of soil 284, 1165, 1877, 2186, 5816, 5885, 6492
production 1386, 2583, 2864, 3195, 3202, 3465, 3812, 3815, 5144, 6400, 6402, 6409, 6410, 6412
conferences, symposia 1180
protective treatment 762, 2880, 3201, 4512, 4867, 4869, 6391, 6392, 6393
research 5924
seed orchards 304, 312, 325, 326, 331, 332, 333, 334, 335, 336, 732, 735, 876, 1353, 1736, 2248, 3465, 3517, 4419, 4423, 5838
Acer 5939
Bombax 6395
Fraxinus 5939
Picea 5280, 6412
Pinus 1245, 1367, 1604, 1926, 3643, 4205, 4422, 4428, 5605, 5606, 5864, 6232, 7075, 7215
Prunus 5939
Pseudotsuga 1352, 1673
Sequoia 1607
Ulmus 5939
seed trees and stands 2248, 3202, 5602, 5864, 6404, 6407
storage 138, 193, 537, 1354, 1355, 1356, 1931, 2167, 2248, 2271, 2538, 2583, 3201, 3447, 3816, 3817, 4788, 6391
testing and quality 2248, 3813, 3816, 5600, 5604, 6397
trade and transport 3202, 5167
treatment assisting germination 6, 13, 30, 31, 34, 138, 542, 988, 992, 993, 1350, 1359, 1360, 1925, 1927, 1932, 2167, 2170, 2539, 2719, 3062, 3121, 3200, 3814, 3819, 3821, 4427, 5146, 5147, 5595, 5644, 6394, 6398, 6401, 6422
uses and products 2411, 5677 (*see also* Nuts and nut crops)
variation 1358, 2252, 2254, 2545, 3822, 5146, 5601, 5603, 5604, 6402
weight 541, 987, 3822, 5603, 7112
Seed-trees (*see* Seed, seed trees and stands)
Seed-years (*see* Seed, periodicity)
Seedlings 2173
culture techniques 495, 558, 1514, 2560
damage and protection 3858, 4079, 7015
diseases and disorders 385, 1618
effect of competition 2168, 4140
growth and development 536, 1514, 2170, 2543, 3407, 3414, 5714, 6159, 6537, 6542, 6973, 6993, 7015, 7112
light relations 2170, 3123, 3858, 4787, 4788
physiology 704, 1562, 3122, 3123, 3407, 3414, 6542, 6993
soil/water relations 6537
study methods 536, 704, 6973
thermal relations 2560, 3124
Sekor brush-cutter 4544
Selection forest (*see also* Silvicultural systems and types of felling, selection)
Selection system (*see* Silvicultural systems and types of felling, selection)
Senegal
afforestation 7338
agroforestry 1290, 7338
Senegal *contd.*
communal forest(ry) 1284
development, forestry 6364
forests and forestry 7338
fuelwood 5106
management, forest 2416
research, forest(ry) 2416
resources, forest 1284, 1290
shelterbelts 6030
Senescence (*see* Age and ageing, physiological)
Sets (*see* Planting stock, sets and truncheons)
Sex in plants
reproductive organs 1164, 5862
secondary differences 2258
Seychelles, education and training 3785
SFI scarifier 1980
Shade trees 2366, 3105, 5665
for crops 462, 3483, 5203, 6047
urban 32, 924, 1136, 2688, 2997, 5078, 5488, 6026, 6682, 7378
Sheep 1803, 4276, 6488
Shelterbelts 901, 1897, 2302, 2366, 2929, 4159, 4160, 4354, 5463, 5602, 5665, 6088, 6090 (*see also* Wind, effect of shelterbelts)
book 5060
economics 4335, 7310
effects 651, 1187, 1276, 2395, 4335, 5056, 5059, 5060, 5061, 6089, 6091, 6093, 6258, 7312
increment and yield 900, 3679, 5464, 5731
injuries 2328, 3581, 5361, 6030
planning 900, 905, 1275, 1276, 5060, 5070, 5455
silviculture 291, 1275, 2394, 4303, 4767, 5142, 6030, 6092, 7291
terminology 459
Shelterwood system (*see* Silvicultural systems and types of felling, shelterwood)
Shifting cultivation 461, 898, 1125, 1499, 1595, 1820, 1855, 1856, 1861, 1873, 4318, 6100, 7336, 7342 (*see also* Agroforestry)
Shoot growth and morphology 276, 353, 708, 1563, 1867, 3408, 3411, 4060, 4063, 4432, 5765, 5929, 6153, 6893, 6965
Shrubs 291, 457, 1383, 2176, 3357, 5915, 6120, 7067
Sicily, diseases, tree 787
Sierra Leone
education and training 3786
forest policy 5105
fuelwood 5105
Silkworms 208, 3282, 5369, 5475
Silvicultural characters of trees 1152, 1493, 2621, 3399, 3713, 4068, 4126, 4809, 5582, 6936
periodicals and serials 5871
Silvicultural systems and types of felling 122, 4380, 4555, 5515, 6472, 6572
book 3854
clear felling 127, 891, 2723, 3028, 4377, 4488, 5523, 5526, 5662, 6482, 6483 (*see also* Clear felling, effects)
clear-strip felling 2749, 3993, 5627, 5628
ecological aspects 1435, 3068, 5504, 5526, 7265, 7266
economics 3960, 3993, 4554
effect on disease 5523, 5526
effect on pests 2347, 7226
effect on soil 2723, 3678, 4721, 4722, 5502
group 3255, 3256, 3854, 5625
group fellings 5523, 6491
hydrological effects 891, 2749, 3028
logging 3896, 4599, 6599
management aspects 128, 151, 1050, 2669, 3229, 3231, 5523
relation to wind 3256
selection 563, 565, 1019, 1967, 2723, 3230, 3231, 3255, 3256, 3854, 4488, 4490, 4605, 5524, 5626, 6482, 6483, 6491, 6731
selective felling 891, 3028, 5660, 6482, 6487, 6494
shelterwood 882, 891, 1416, 2040, 2723, 2898, 3856, 3857, 3937, 4490, 4787, 5662, 6482, 6487, 6927

Silviculture 45, 2522, 2621, 5515 (*see also* particular silvicultural operation concerned, e.g. Cleaning, Improvement fellings, Planting, Thinning)
Abies alba 1419
Acacia auriculiformis 6627
A. melanoxylon 5665
book 2523, 3151, 6368
broadleaves 6242
conferences, symposia 6357, 6473
Cryptomeria japonica 3834
Cupressus arizonica 159
C. sempervirens 158, 159
ecological aspects 584, 663, 2466, 2523, 2628, 5503, 6357, 6358, 6361, 6362, 6365, 6368, 6611, 7282
economics 6629, 6793
Eucalyptus spp. 1431, 1432
Fagus sylvatica 1650, 2630
Fraxinus excelsior 6631
Gmelina arborea 6138
Grewia oppositifolia 6662
history 1887, 4119, 5561
intensive 1032, 1080, 1431, 1470, 1523, 2032, 2034, 2142, 2466, 3229, 3258, 3259, 3262, 3263, 3264, 3265, 3266, 5132, 5136, 5254, 5526, 5581, 5722, 6075, 6353, 6369, 6445, 6580, 6629
Juglans regia 2632
Liriodendron tulipifera 3270
Picea abies 3900, 6614, 6617
P. glauca 321
P. mariana 321, 3859
P. sitchensis 3963
Pinus spp. 1032, 1426
P. halepensis 581
P. massoniana 6620
P. pinaster 2644, 5661
P. ponderosa 2626
P. 'Southern' 5516
P. strobus 1425
P. sylvestris 6552
P. taeda 1486
Populus spp. 4556, 5581
Prunus avium 4558
Pseudotsuga menziesii 3246
Pyrus communis 6632
Quercus robur 3247
review 2628
Simmondsia chinensis 5677
Sorbus domestica 5192
S. torminalis 3901, 3902
terminology 2456
Thuja plicata 1915
Trichilia roka 6634
Tsuga heterophylla 3115, 3963
Singapore
education and training 3783
forest industry 6273
forests and forestry 6273
Site-class assessment 3949, 5221
by climatic factors 6740
by growth 232, 1072, 1073, 1084, 1421, 1457, 1462, 2053, 2654, 2660, 2662, 2663, 2714, 3079, 3116, 3138, 3139, 3311, 3922, 3934, 3935, 3936, 3938, 4581, 4610, 5216, 5727, 6618, 6674, 6705, 6712, 6719, 6720, 6721, 6724, 6725, 6728, 6729, 6730, 6732, 6740, 6763
by soil factors 215, 253, 615, 636, 644, 1113, 1315, 2053, 2654, 2663, 2714, 2716, 3116, 3117, 3139, 4581, 4688, 5525, 5715, 6533, 6618, 6705, 6717, 6719, 6721, 6724, 6732
by topography 215, 615, 2053, 2654, 2706, 5240, 6717, 6721
by vegetation 4581, 6674
review 1461
systems analysis and simulation 3117, 5725
Site preparation 3131, 4874, 5054, 5167, 5180, 5515, 5518, 5641, 6525 (*see also* Sowing, direct, site preparation; Stump removal)
burning 120, 661, 1980, 2589, 2593, 2752, 4521, 5272, 5277, 5517, 5643, 6532, 6537
chemical methods 120, 1037, 1979, 1980, 3877, 3878, 3879, 4519, 6096, 6505, 6527, 6557
conferences, symposia 3228
economics 5199, 6536
Site preparation *contd.*
mechanical methods 120, 139, 140, 1034, 1035, 1036, 1391, 1403, 1438, 1979, 1980, 2010, 2576, 2593, 2595, 2601, 2633, 3234, 3877, 3878, 3905, 4511, 4515, 4519, 4522, 4524, 5017, 5181, 5198, 5640, 5642, 5643, 6096, 6407, 6505, 6507, 6518, 6526, 6529, 6530, 6531, 6534, 6535, 6537, 6538, 6539, 6540, 6641, 6811
review 120
Site types 5495, 6056
classification 232, 251, 1037, 1112, 1114, 2237, 2675, 2857, 3074, 3080, 4123, 6833, 7051, 7054, 7340
description 2096
mapping 1112, 1851
study methods 3358
Skidding equipment
cables, chokers 6643
tongs, grapples 5674
Skidding methods
cable methods 4537
damage 4536, 4537, 4538, 5978, 6471
economics 6570
planning, organization 4537
use of draught animals 4539, 6570
work studies 4539, 5670, 6218
Slash 5138
breakdown 1438, 1495, 1496, 1616
disposal 1169, 1508, 1537, 2589, 2601, 5277, 6525, 6526, 6928
effect of leaving 1535, 1616, 6525, 6526
measurement, surveys 1535, 2026, 2035, 5522, 5743, 5745
regeneration in 2589
utilization 1438, 4406, 5522, 5743
Sloths 1255
Smallwood 2615
Snow 2083
ecological effects 1117, 2106, 3042, 3044
hydrological aspects 1782, 2386, 3037, 3039, 4026, 4300, 5047, 6091, 7297
surface distribution 1782, 2749, 3036, 3038, 3039, 3040, 3041, 4300, 4657, 5047
Snow damage 1487, 1488, 2082, 2084, 2703, 2833, 3044, 3045, 3046, 3047, 3048, 3256, 4001, 4402, 4683, 5763, 6361, 6591, 6594, 6812, 6814, 6882
Soil
book 2708, 6818
conferences, symposia 3086
degradation, biotic 1499
parent rock 3535, 4695
relation to land use 515, 1856, 2095, 2839, 4695, 5525, 6883
relation to succession 638, 639, 4004
study methods 2095, 3086, 5769
variation, small-scale 3484, 6832
zonation 3716
Soil amendments 903, 1377, 4484, 5273, 5780, 6453, 6879
Soil atmosphere 1134, 1493
Soil biology 3719, 4462
activity, biological 908, 1150, 1950, 2710, 2717, 3715, 4689, 6857
algae 646, 4010
bacteria 2100, 2226, 3064, 4015, 4689, 5246
fauna 647, 1856, 2101, 2226, 3063, 4336 (*see also* Earthworms; Nematodes; Termites)
fire effects 1150
flora 2099, 3503
fungi 569, 641, 1616, 1618, 1623, 1640, 2100, 2226, 2261, 3064, 3361, 3495, 3763, 5246, 5781, 6502, 6844, 7126, 7127, 7134, 7161 (*see also* Mycorrhiza)
inhibitors of soil organisms 254, 569, 645, 7159, 7160
micro-organisms, general 254, 552, 645, 2717, 5525, 6843, 7160
protozoa 4689
respiration 2101, 4689
study methods 5246
Soil chemistry 1162, 4004, 4689
Al 1118, 4009, 6881
analysis 644, 2090, 3715, 3731
base exchange capacity 1374, 3064, 4691, 6825
Ca 253, 659, 1125, 1649, 4449
Soil chemistry *contd.*
$CaCO_3$ 636
clay minerals 1118
Fe 1118, 2707
fire effects 2140, 3735, 4762, 5272, 6825, 6906
gases and volatile substances 1134, 4859
heavy metals 668, 1522, 2124, 3375, 4308, 5261
inorganic 1260, 3064
K 3484
leaching 657, 1125, 2220, 2391, 3220, 4013, 4709, 6857
Mg 3484, 4449
N 643, 1374, 1504, 1515, 2090, 2225, 2391, 2555, 3726, 4708, 5161, 6825, 6857
nutrient cycle 453, 656, 657, 1129, 1315, 1508, 2043, 2112, 2113, 2218, 2655, 2711, 2723, 3119, 3725, 4015, 4117, 4690, 5255, 5256, 5277, 6852, 6853, 6856
nutrient depletion 655, 980, 1125, 2098, 2108, 2723, 2725, 3606, 3729, 3736, 3940, 5241, 5254, 6839
nutrient supply 253, 644, 655, 1115, 1504, 1509, 1515, 1776, 2092, 2109, 2111, 2229, 2230, 2709, 2716, 2724, 2837, 2841, 3352, 3714, 3715, 3731, 3734, 4704, 4708, 4712, 5161, 5711, 5785, 6173, 6450, 6850, 6851, 6854
organic 643, 1118, 2391, 2712, 3064, 3725, 3726, 5259, 5770, 5771, 6822, 6825, 6828, 6881
P 635, 659, 3484, 4691, 6825
pH 643, 1374, 1490, 1649, 1791, 2112, 2113, 3064, 3354, 3999, 4009, 5272, 6823, 6824, 6825, 6827, 6837, 6856, 6881
review 3715
S 4690, 6881
salinization 1791
seasonal variation 3352
Si 5776
study methods 635, 5525
systems analysis and simulation 2229, 5711
Soil conservation (*see* Conservation, soil and water)
Soil erosion (*see* Erosion)
Soil fertility 1260, 2098, 2483, 2801, 2874, 3006, 4140, 4519, 5785, 6705, 6732, 6841
effect of logging 1851, 2716, 4013, 6838
effect of tillage 659, 2097
soil-improving species 643, 902, 904, 908, 1122, 2097, 2411, 2715, 5245, 5253, 5521
Soil formation processes 637, 638, 639, 1118, 1129, 2713, 3716, 4689, 4693, 4694, 4695, 6832
Soil physics 1162, 5641, 6820
bearing characteristics 6782, 6833
density, compaction 643, 2088, 2089, 3377, 3406, 4003, 4022, 5196, 5643, 5898, 6821, 7294
erodibility 634, 1492, 3677, 4721, 4722, 5770
fire effects 5272, 6906
porosity 4003, 6821
structure 1490, 5165
study methods 6782
temperature 670, 1493, 1524, 3717, 6529
texture 253, 1493, 2107, 2709, 2716, 5446
Soil stabilizers 6085
Soil sterilants 1381, 2266
Soil survey and mapping 251, 1120, 1121, 1498, 1499, 1795, 2455, 3309, 3360, 6835, 7055
book 4008
Soil toxicity 1514, 2402, 4009, 4066, 4304, 5257, 5295, 5888, 6817, 6837, 6840
Soil types 1491, 2094, 3071, 3716, 5525, 5778
acid 5779, 5914, 6850, 6851
alfisol 1315
alkaline 2401, 2599, 5633
black 2106, 2165
book 4008, 6816
brown soils 641, 1118, 4696
calcareous 4696, 6840, 6850, 6851
chernozem 900
chestnut 900

Soil types *contd.*
ferrallitic 2097
forest-steppe 646
gleys and pseudogleys 670, 2089
granite 648, 6451, 6819
grey forest 646, 1976
heathland 2111, 5914
lateritic 1260, 2707, 2714
mangrove 5781
peat 126, 980, 2125, 2126, 3912, 4461, 5779, 5914, 6782
podzolic 670, 1118, 1119, 1129, 1522, 3352, 6832
podzols 641, 1260, 2220
red 3222
saline 4066, 6840
sands 1365, 2096, 3360, 5467
serozems 4696
skeletal 648
solonetz 3360, 4519, 6817
swamp 1494
tropical 110, 1499, 2099, 2709, 2714, 2716, 3222, 4691, 5914
volcanic 1115, 3435
Soil water 2140, 3717 (*see also* Groundwater)
deficiency 1493, 4901
depletion by trees 1524, 6821
depletion by vegetation 648
effect of ground cover 1500, 4304, 4699
effect of tillage 1403, 6821
effect on growth and development 255, 2107, 2663, 2676, 3363, 4700, 6845
infiltration 2104, 6083, 7294
measurement 5783
patterns of depletion 1129, 3363, 4025, 6821, 6854
physiological aspects 661, 2106, 2351, 7161
storage 648, 2106, 2709, 4692, 6854
systems analysis and simulation 3351
tensions, stress 3722
transport of materials 1125, 1129
water balance 648, 651, 1123, 3351, 4292, 4698, 5247
Solomon Islands
Eucalyptus deglupta 401
insects 401
Somalia
Azadirachta indica 1433
education and training 3787
South Africa
Acacia melanoxylon 357
Agathis spp. 1428
arthropods 5383
burning, controlled 267, 625, 674, 2756
Cassine eucleiformis 1552
C. maritimum 1552
Casuarina equisetifolia 5222
catchment areas, management 893, 1273, 1783, 5456, 6070
climate 1484
coppice 1052
documentation and information services 2500
ecology, forest 294, 723, 5383
Encephalartos laevifolius 1541
erosion 1273
Eucalyptus spp. 1432
E. citriodora 533
fertilizers 1126
fire 678, 5274, 5275, 6914, 6992
forest site classification 1112
fuel plantations 2517, 5571
hydrology 7295
land use 893
management, forest 128, 614
Maytenus acuminata 1552
measurement systems, units 497
names, plant 7016
nature conservation and reserves 6070
nursery management 5167, 5168
nutrient cycle 6992
periodicals and serials 5871
Pinus elliottii 535
P. taeda 535
plantations 4504
planting stock 5167, 5168
provenance studies 533, 535
Prunus africana 5321
seed trade 5167
silviculture 128, 1432
soil types 2094, 5898
South Africa *contd.*
species trials 1428
succession 5899
surveys, aerial 625
thinning 5188
Tragelaphus scriptus 445
vegetation types 678, 2756, 5275, 5899, 6992, 7047
volume tables 5222
weed control 2756, 5167, 6569
wildlife 6058, 6070
yield studies 611
Southwest Africa
Eucalyptus citriodora 533
provenance studies 533
Sowing, direct 3911, 4506
aerial 1976, 3868, 5179, 5634, 7328
economics 1977
fertilizing and mulching 3681
methods and equipment 2170, 3868, 3869, 4559, 5200, 6642, 7319
protective measures 3062, 4512, 7150
seedbed conditions 2600, 3681, 3876, 4512, 5634
site preparation 1391, 4511, 5634, 5644, 6529
time/season 2401, 3819, 4512
vs. planting 1391, 1977, 5635, 5637, 6509, 6510, 7322
with treated seed 138, 581, 3819, 4511, 5644
Spacing 198, 1049, 2594
economics 134, 2631, 3241, 6588
effect on growth and form 1024, 1801, 1815, 1978, 2032, 2102, 2142, 2631, 2742, 3135, 3241, 3243, 3871, 3875, 3923, 3932, 3955, 4549, 4551, 5219, 5520, 5636, 6521, 6601, 6620
effect on wood properties 2742, 2743, 6889, 6898
hydrological effects 5463
relation to snow and wind damage 2815, 6594
Spain
Abies spp. 2234
birds 3015
Catocala promissa 2948
Ctenarytaina eucalypti 7219
Cupressus spp. 175, 5343
diseases, tree 175, 767, 5343, 5387
Fagus sylvatica 2234
farm forest(ry) 1810
fires, forest 6911
forests and forestry 6235
fungi 873
insects 5343, 5387
land use 1810
landscape 7369
legislation 3174
minor forest products 873
nature conservation and reserves 3174
plant protection 6038
recreation, forest 7369
soil types 2718
Ulmus spp. 5387
vegetation types 5900
wildlife 3013
Species trials 157, 785, 983, 985, 1428, 1914, 1916, 2510, 2528, 2529, 2567, 2577, 2579, 2764, 3196, 3461, 3811, 4416, 4417, 4516, 4640, 4641, 5073, 5140, 5477, 5583, 5585, 5587, 5592, 5784, 6372, 6377, 6387, 6613, 6933
review 6373
Specimens and samples, collection
invertebrate animals 2946
plant materials 7021
Spiders 7015
Spraying equipment 2609, 4530
Squirrels 605, 2121, 3023, 5027, 6062
Sri Lanka
education and training 3782
flora/check lists 4801
landscape 1860
mangroves 1860
mycorrhiza 3763
nature conservation and reserves 4127
provenance studies 3192
seed sources 3192
Stemonoporus spp. 2174
vegetation types 3763
virgin forest 4127
Stability of stands (*see* Stand characteristics, stability)
Stain fungi 4195
Stand characteristics 1997
age structure 2049, 2642, 3269, 3441, 3922, 3924, 4024, 4567, 4615, 6232
composition 298, 2812, 3232, 4127, 4128, 4567
density 1084, 1316, 1425, 2047, 2050, 3924, 3925, 3977, 4571, 4573, 4768, 5520, 5692, 5702, 5716, 6171, 6578, 6619, 6672, 6683
description 2645, 3181, 3429
development 564, 594, 603, 1450, 1877, 2037, 2200, 2202, 2243, 2642, 2806, 3243, 3283, 3922, 3923, 4492, 4583, 4588, 5179, 5626, 5687, 5889, 6686, 6707, 6708, 6731
development stages 3027, 5327
mortality/survival 1110, 1450, 4579, 5321
projection 4606
quality 134, 1050, 2238, 2586, 2657, 5263
spatial distribution of trees 1316, 2643, 3930, 3977, 4806, 5692, 6687
stability 2238, 2704, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2815, 2818, 2821, 2824, 2829, 2830, 2847, 4824, 5630, 6812, 6883, 7034
structure 564, 1851, 2049, 2089, 2139, 2243, 2623, 2812, 2855, 3027, 3243, 3283, 3288, 3292, 3321, 3924, 3973, 4127, 4128, 4289, 4366, 4490, 4541, 4568, 4575, 4606, 4612, 5626, 5687, 5692, 6731, 6812
survey methods 2047, 3977, 5889
systems analysis and simulation 1450, 1851, 2139, 6707, 6708
Stand tables 228, 2020, 3973, 4592, 4612, 6698
Standard
classification 3711
measurement of roundwood 5685
mensuration, forest 591
planting stock 1401
Statistical methods (*see* Mathematical and statistical methods)
Statistics, forest 1328, 1893, 5553, 6290, 6291
aims and methods 2061
Stem, mechanics 1488, 2152
Stem analysis 1457, 2659, 4796, 5520, 5720, 5723, 5889, 6212
Stem form 2152, 6584
butt swelling 2765
crook, sweep 5211
eccentricity 595, 1453, 2019
equations 212, 1417, 2765, 5704, 6689
height/diameter ratio 6697
lean 1135, 6811
taper 212, 3285, 3319, 3927, 4631, 5520, 5694, 5704, 6689 (*see also* Form factors)
Stemflow 1777, 5251, 6832, 6852, 6863, 6865, 7296
Steppe (*see* Vegetation types, steppe)
Stomata 28, 695, 3514, 3519
Storage
roundwood 6018
under sprinklers 6018
Stratification (*see* Seed, treatment assisting germination)
Streams 1584
ecology 1587, 4027, 5445
effect of forest damage 1587, 6064
effect of forestry practices 1587, 1775, 2387, 2736, 2737, 3671, 3673, 4027, 4292, 4293, 4294, 4299, 4302, 4711, 5048, 5453, 6071, 7289
erosion and deposition 1785, 1786, 6071, 7292
flow measurement 894, 2388, 3671, 4291
hydraulic studies 1785, 2385
land-use aspects 1781, 6067, 7367
relation to local vegetation 1784, 2241, 4027, 4820, 5252, 5448, 7292
study methods 1785, 1786, 3675
systems analysis and simulation 2390
temperature 2737, 4291, 5453
training 3024, 3025 (*see also* Torrent training)
water quality 2390

Street trees 491, 579, 705, 706, 926, 1111, 1600, 1839, 1840, 2118, 2153, 2452, 2687, 3526, 3700, 3701, 3702, 4351, 4360, 4703, 5077, 5489, 7377, 7381, 7385 (*see also* Ornamental trees and shrubs)
Stump removal 2633, 6536
Stumpage value and fees 2275, 2696, 2697, 3342, 5756, 6696, 6803
Stumps
disease hazard 380, 1641, 4885, 4889, 5345, 7196
flora and fauna 4254, 5345
treatment 1641, 7165, 7196
Subsidies (*see* Credits and subsidies)
Succession 722, 1585, 3427 (*see also* Decay fungi, succession)
anthropogenic 5887, 5908, 5910, 7032, 7037
book 3424, 7037
climaxes 300, 724, 1168, 1542, 4567, 5327, 5887, 7032, 7042
colonization, invasion 1834, 1963, 2591, 2802
conferences, symposia 3424
on mining wastelands 2591
on volcanic sites 3435
relation to biotic factors 1588, 2242, 2802, 3428, 4811, 5953
relation to climatic factors 293, 2190, 2802, 3426, 4567
relation to felling and logging 293, 300, 1125, 1169, 1593, 1597, 2185, 2202, 3236, 3855, 4385, 4809, 5499
relation to fire 293, 300, 724, 1169, 1542, 1543, 1544, 1597, 2185, 2801, 2802, 3428, 3947, 4813, 5497, 6907
review 4824
role of plant species 1177, 3236, 3283, 3436, 3855, 4116, 4130, 4809, 4824, 7038
seral stages 721, 1037, 1177, 1179, 2233, 3283, 4807, 4811, 5903, 6365, 7032
study methods 2190, 4807, 4811, 7033, 7038
systems analysis and simulation 1168, 2233, 3425, 3426, 4813, 5318
Suckering 996, 1036, 1389, 5030, 5622, 5629, 5681, 5950
Sudan
Acacia nilotica 5872
A. senegal 1288
agroforestry 3764
development, forestry 5092
education and training 3787
forests and forestry 3800
Sunscald (*see* Insolation, injury by)
Sunspots (*see* Climatology, climatic variations)
Suriname
agroforestry 466
plantations 466
Primates 1854
vegetation types 1854
Surveying and mapping 246, 3070, 3320, 3980, 5753, 6247 (*see also* Soil survey and mapping; Surveys, aerial, mapping; Vegetation, general, survey and mapping)
book 1093
computer techniques 3337, 3798, 3982, 3983, 4665, 5231, 5233, 5529, 5750, 6209, 6214, 6771, 6779
conferences, symposia 5751
data recording and processing 624, 1120, 1121, 3337, 6209, 6776, 7361
drawing-office practice 3985, 4716
estimation of areas 6253
instruments and equipment 592, 3326
Surveys, aerial
estimation of stand parameters 2035, 3314, 6090
forest-injury studies 625, 1478, 2969
infra-red 625
mapping 7051
photo interpretation 2646, 3985, 6090
photography 2035, 3308, 3314, 5228, 6090
sampling methods 3308, 3314, 5228
Surveys, forest 2064, 3308, 3309, 3316, 4633, 4944, 5033 (*see also* Inventory, forest; Regeneration surveys)
data recording and processing 403, 3318, 3753, 4626, 4650, 4651, 5470, 5749
Surveys, forest *contd.*
sampling methods 2062, 2678, 3314, 3320, 3500, 3702, 4984
Swaziland, fuel plantations 2518
Sweden
accidents 5567, 5568, 6328, 6331
associations, societies 4386
biological control 835, 869, 1739
birds 5442
book 2194
breeding, tree 324, 326, 336, 338, 340, 743, 744, 1604
burning, controlled 6532
climate 7039
Corylus avellana 7039
credits and subsidies 62
ecology, forest 2194, 2231
economics, forestry 1324, 5236, 6327
energy resources 83, 4409, 6350
farm forest(ry) 4387
fertilizers 1406, 2555, 2843, 4284, 4461
fire control 4725
fires, forest 4059, 4736
forest administration 4383
forests and forestry 296, 1323, 1324, 1325, 1326, 1327, 3177, 3178, 4383, 5086, 6326, 6327
forests, individual 6317
fuel plantations 3804
fuel resources 6348
fungi 1616
grazing and pasture 1326
history, forest(ry) 1323, 1324, 1325, 1327
hydrology 5264
Hylobius abietis 835, 4945
irrigated stands 1406
labour 66, 5566
labour, forest 64, 65, 6334
land classification 3075
land use 1323, 1324, 1325, 1326, 1327
Larix sukaczewii 6933
legislation 3177, 3178
logging 6575, 6678
logging damage 5671
machines, tools, equipment 6608
mammals 4284
management, forest 1324, 6753, 6754
mechanization of forest operations 2634
nutrient cycle 1497
Otiorhynchus sulcatus 1739
peatland 3434
Picea abies 325, 326, 327, 330, 334, 340, 342, 2843, 6706
Pinus contorta 325, 329, 336, 1424, 3195, 4202, 5868
P. sylvestris 325, 326, 328, 330, 335, 2194, 2195, 2196, 2231, 5868
plantations 7006
planting stock 325
private forest(ry) 45, 4386, 4387, 5236
productivity, forest 5305, 5724
provenance studies 327, 328, 329, 330, 342, 3195, 5868
recreation, forest 2441
regeneration 5173, 6514, 7006
regeneration, natural 6363
remote sensing 6765
research 62, 2195, 6317
roads 147, 6575
seed production 325, 331, 332, 334, 335, 336
silviculture 45
site preparation 6532
spacing 4549
species trials 6933
stand characteristics 212
surveys, forest 5748
tending of stands and trees 6608
thinning 147, 599, 5663, 5671, 6575
Tomicus spp. 4247
vegetation types 2196
wildlife 7262, 7263, 7264
work studies 6334
yield studies 238, 6706
Sweep (*see* Stem form, crook, sweep)
Swine (*see* Pigs)
Switzerland
avalanches 899
book 3854
communal forest(ry) 505, 507
consolidation of land holdings 503
dendroclimatology 6130
diseases, tree 2290
Switzerland *contd.*
economics, forestry 507
Elatobium abietinum 799
Endothia parasitica 782, 2911
forests and forestry 1894, 1895, 5551, 6132, 6270
history, forest(ry) 499, 2669
hydrology 3039, 3041, 5248
labour 6330
land use 912
landslides 2393
legislation 47
management, forest 46, 47, 2669, 3301
Martes martes 2378
periodicals and serials 6132
pollution, air 2068
private forest(ry) 503
protection forest 2393
public relations 975
regeneration, natural 3854
remote sensing 1475, 2068
silvicultural systems 2669
silviculture 565, 1967, 3854
snow damage 3046
urban and suburban forest(ry) 1475
vegetation types 7050
wildlife 3662
Zeiraphera diniana 410
Symbiosis 4155
Synecology
classification of communities 43, 721, 724, 728, 2235, 2237, 4125, 4130, 4133, 4134, 4394, 4821, 5326, 5753, 5901, 5902, 7055
composition of plant communities 292, 2228
America, North 3114
Australia 2890, 7053
Austria 7048
bibliography 4131
book 1592, 2244
Canada 4394
Canada, Ontario 4807, 5323
Canada, Quebec 727, 4137, 4138, 4807
Colombia 4828, 4829
Costa Rica 7032
France 2234, 2858
Ghana 1592
Great Britain, Scotland 4133
India, Gujarat 4819, 5324
India, Jammu and Kashmir 6157
Indonesia 4128
Israel 5905, 5906
Italy 5911
Ivory Coast 3439
Japan 7052
Japan, Honshu 5903, 6859
Japan, Kyushu 7042
Japan, Shikoku 5913
Mexico 2244
Netherlands 7055
Pakistan 5319, 5322
South Africa 723, 5899, 7047
Spain 2234, 5900
Taiwan 5691
USA 4050, 4051
USA, Arizona 724, 3654, 5901, 5902
USA, Colorado 5326
USA, Hawaii 3440
USA, Lake States 2193
USA, Massachusetts 4809
USA, Nevada 2239
USA, New Hampshire 3429
USA, New Mexico 5901, 5902
USA, New York 3436
USA, north-western 1586
USA, Oregon 2183, 4134, 4136, 5327, 6057
USA, South Carolina 1175
USA, Texas 725
USA, Utah 2239
USA, Washington 5327
USA, Wyoming 4125
USSR, Ukraine, Crimea and Moldavia 2235
composition of plant communities in relation to
biotic factors 1588, 1593, 2189, 2890, 4244, 4826, 7035, 7053, 7055
climatic factors 293, 1173, 3429, 4567, 4829, 5886, 5913, 7036

Synecology *contd.*
composition of plant communities in relation to *contd.*
fire 271, 293, 678, 1542, 1543, 1544, 1588, 2755, 4049, 4050, 4051, 4052, 4053, 4244, 4823, 5275, 5440, 5517, 5887, 7053
land use 293, 479, 3068, 3069, 5323, 5908, 5913, 6883
physiographic/topographic factors 3429, 4829, 5905, 6859
site factors 584, 2241, 2801, 5909
soil factors 293, 729, 5905, 7053, 7055
conferences, symposia 4130
data recording and processing 2197
ecotones 728, 2189, 3437, 3438, 5914, 6054
layer structure of plant communities 1584, 1586, 2202, 2645, 2858, 2860, 4807 (*see also* Ground vegetation)
review 4822, 4824
spatial distribution patterns 678, 1316, 2188, 2189, 2232, 2643, 4376, 4806, 5440, 6687
species diversity 2832, 4127, 4824, 4825, 5906, 5909
study methods and measurements 1316, 1790, 2189, 2201, 2241, 4625, 4807, 5753
systems analysis and simulation 1790, 2197, 4825, 5440
theory 1584, 1585, 2228, 3425
Systems analysis and simulation 2197, 2199, 2458, 4995, 5196, 5440, 6910 (*see also under* subject concerned)
bark beetles 832
biomass production 3950, 5725, 6718
carbon cycle 4370, 4371, 7345
catchment areas 1783
defoliation 7217
dendroclimatology 2460
economics, forestry 1317, 1320, 1829, 2071, 3338, 4671, 4674
energy relations, plant/environment 4370, 4371
fire control, general 4037, 6922
fire effects 4760
fire suppression 4758
fires, forest 5266
fuel plantations 4701
hydrology 1267, 4370, 4371, 4701, 5449
increment 1815, 2033, 2460, 3311, 3950
insect pests of trees 2345, 4208, 5385
inventory, forest 617, 3308, 3315
land use 2425
management, forest 614, 939, 1317, 3966, 4377, 4674, 5223, 5224, 6756
nitrogen cycle 4609
nutrient cycle 663
nutrition, plant 3720
parasites of insect pests 5394
physiology, plant 133
planting stock 133
pollution, air 2122
precipitation, hydrological aspects 6076
protection of forests, general 619
radioactive isotopes 2735
recreation, forest 1301, 1829, 2425, 6110
resources, forest 3149
rust diseases 2905
site-class assessment 5725
stand development 6707, 6708
succession 1168, 3425, 4813, 5318
synecology 4825, 5440
thinning 3892, 6707, 6708
wildlife 2372, 3658, 3659
yield regulation and forecasting 498, 611, 2041, 3311, 3950, 3958, 4609, 5732
Taiwan
Albizia falcataria 6732
bamboos 5393, 6664
breeding, tree 2249
catchment areas, management 7301
Chamaecyparis formosensis 6508
conferences, symposia 2249
Cryptomeria japonica 6733, 6734
Cunninghamia konishii 6386
Dendrocalamus giganteus 6664
diseases, tree 5379, 5380
flora/check lists 5880, 7029
mangroves 1594
Mecistoscelis scirtetoides 5393
Meliaceae 5880
Taiwan *contd.*
Palmae 7029
Paulownia spp. 5379
Pinus spp. 2536, 2537
P. luchuensis 7075
P. taiwanensis 5635
plantations 6084
provenance studies 2536, 2537, 5593, 6386
Pseudotsuga menziesii 5593
research 7301
stand characteristics 5691
statistics, forest 5691
vegetation types 5691
yield studies 6733, 6734
Tannins (*see* Chemical constituents of plants, organic, tannins)
Tanzania
Acacia mearnsii 1055
afforestation 2565
development, forestry 1055
education and training 3787
environmental conservation 1342
fertilizers 2574, 2576
forests and forestry 5091, 6287
fuel resources 1342
national parks 3695
nursery management 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2578
Pinus caribaea 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2578
P. oocarpa 2569, 2570, 2572, 2573, 2575
planting stock 2575, 2578
provenance studies 2577
remote sensing 245
research 6287
site preparation 2576
species trials 2565, 2577
thinning 148
vegetation types 3695
weed control 2576
Taper, stem 1454 (*see* Form factors; Stem form, taper)
Taungya 1075, 1280, 3066, 3068, 5471, 5474, 5478 (*see also* Regeneration, artificial, combined with agriculture)
Taxation 522, 967, 968, 1333, 2071, 2499, 3921, 5534, 5565, 6311, 6312, 6314
Taxonomy 166, 285, 286, 289, 290, 711, 712, 713, 715, 716, 717, 718, 1167, 1554, 1557, 1567, 1568, 1569, 1571, 1572, 1573, 1575, 1576, 1577, 1578, 1579, 1580, 2179, 2770, 2787, 2788, 2796 (*see also* Chemotaxonomy)
Acacia 2805, 5872
Acer 4798, 5875
Acokanthera 7020
Adansonia 6970
Araliaceae 5825
Araucaria 4780
Balanites 6947
Bambuseae 4113, 6149
Barylucuma 5282
Betula 4109, 5874
bibliography 2178
Bruguiera 2792
Calamus 7019
Cathaya 7027
Cybianthus 2789
Daemonorops 7019
Dalbergia 6154
Dicotyledoneae 2178
Dioon 2790
Ecclinusa 5285
Eucalyptus 6148, 7053
Gayella 5284
Lyonia 3421
Manilkara 5281
Melastomataceae 4106
Pinus 5313
Pityophthorus 2962
Populus 6147
Pourouma 4799
Pradosia 5283
Pseudolarix 4781
Pseudotsuga 3422, 7024
Punica 4112
Quercus 2155
Ragala 5286
Rhopalocarpaceae 7018
Santalum 6146
Sapotaceae 5281, 5282, 5283, 5284, 5285, 5286, 5288
Taxonomy *contd.*
Sarcaulus 5288
Sarcolaenaceae 7018
Shorea 4111
Terminalia 6971, 7017
Ulmus 3423, 7116
Wercklea 4110
Xanthophyllum 6944
Tending of stands and trees 1385, 2002, 2476, 6470, 6567, 6572, 6581 (*see also* particular operations, e.g. Pruning, Weed control in plantations)
Terminology 5492, 6199
English 2456, 3031
French 3031
German 3031, 4363
Italian 493, 3031
Russian 2456
Spanish 3031
Termites
attractants 7207
biology and ecology 390, 1851, 3063, 3355, 3589, 4950, 7207
control 1679, 4949
damage by 1679, 7208
identification 796
plant pests 401, 797, 1679, 3589, 4949
resistance to 797
review 1680
timber pests 3355
Terracing (*see* Contour ridging, trenching and terracing)
Terrain classification and effects 2706, 3075, 3080
Thailand
afforestation 2404
agroforestry 2404
Cervus unicolor 1853
Cleora injectaria 3604
Dipterocarpaceae 4126
education and training 3782, 3783
forests and forestry 2404
fuel resources 5112
mangroves 2144, 2145, 2146
maps 628
national parks 1853
shifting cultivation 1861
vegetation types 4126
Thermal properties of wood
calorific value 2506
calorimetry 6917
ignition, combustion, fire resistance 6917
Thermal relations of plants 21, 42, 1097, 1563, 3345, 3383, 3832, 4083, 4791, 7039
soil temperature 1515, 4682
Thinning 109, 1088, 1997, 4597, 4604, 4606, 5188, 5515, 6587, 6597
chemical 1003, 1038, 4542
conferences, symposia 2610
criteria 1046, 2001, 5650, 6602, 7374
early non-commercial 149, 582, 3134, 3893, 3951, 4542, 4548, 6590, 6592, 6600
ecological effects 582, 7068
economics 149, 1043, 1044, 2610, 2611, 2612, 2631, 3141, 3145, 4547, 6570, 6571, 6579, 6588, 6590, 6596
effect on form 1417, 2000, 6584
effect on microclimate 1524
effect on soil 656, 4709, 6830
effect on wood properties 669, 3837, 4720, 5519, 6899
frequency 3890
genetic aspects 1608
hydrological effects 3668
in coppice 6570, 6598
in mixtures 1038, 5728, 7374
logging and transport 147, 1043, 1044, 1410, 1411, 4536, 4539, 5649, 6570, 6576, 6599, 6603
machines, tools, equipment 146, 203, 1413, 1998, 2008, 2615, 2616, 3273, 3906, 4543, 5185, 5187, 5201, 5202, 5656, 5670, 5671, 6574, 6646, 6649
mechanization 146, 2610, 3892, 6579, 6582, 6644
natural 3929, 6707, 6708
physiological effects 6433
planning, organization 599, 1414, 2613, 2614, 3141, 4537, 4547, 5186, 6574, 6576, 6577, 6602

Thinning *contd.*
relation to abiotic injuries 1999, 2704, 2815, 3894, 6589, 6591, 6595, 6812, 7164
relation to disease 150, 1999, 4538, 4885, 6573, 6586, 7164
relation to pests 1608, 2618, 3140, 3894, 3895, 4263
systematic 1413, 3891, 4537, 5655, 5663, 6591
systems analysis and simulation 3892, 5649, 5732, 6218, 6598, 6707, 6708
types and grades 148, 149, 1003, 1045, 1373, 1415, 1416, 1417, 1945, 1948, 2047, 2612, 2614, 2615, 2617, 2752, 3140, 3255, 3256, 3890, 4514, 4540, 4541, 4545, 4546, 5519, 5652, 5655, 5732, 6494, 6573, 6576, 6577, 6579, 6583, 6585, 6591, 6593, 6616, 6620
utilization 2615, 5654, 6355, 6571
volume determination 1801, 1996, 3293, 5654, 6672
work studies 146, 203, 1410, 1411, 1414, 1436, 1998, 2008, 3906, 4543, 5187, 5202, 6339, 6571, 6574, 6582, 6644
3P sampling (*see* Inventory, forest, sampling methods)
Timber trade
economics 956
Japan 957
legislation 957
USA 951, 957, 958
wood supply and demand 957, 958
Timberjack tree-length harvester 1413
Tissue culture (*see* Propagation, vegetative, tissue culture)
Tolne planting machine 4503
Tonga
fertilizers 6450
mycorrhiza 378
Pinus caribaea 6450
P. caribaea hondurensis 378
Topping 2620
Torrent training 1774, 1788, 3031, 4301, 7303
Toxicity (*see* Soil toxicity)
Trace elements (*see* Chemical constituents of plants, inorganic, minor elements; Deficiency, nutrient, minor elements; Fertilizers, minor elements; Nutrition, plant, minor elements)
Tractors and skidders
ancillary equipment 5670, 6645
makes and specifications 6645, 6647
work studies 5670
Tractors, general-purpose 3251
Trade 1888
Training of forest workers (*see* Education and training)
Translocation 2109, 5725, 6995, 6998
Transpiration 654, 892, 1124, 1272, 2204, 2207, 2208, 3029, 3365, 4016, 4367, 4702, 5305, 7000
systems analysis and simulation 2205
Transplanting of trees 3107, 6115
Transport, logs and timber 6474
Tree classes 2586, 3218, 6931
Tree guards (*see* Guards, tree)
Tree surgery 925, 977, 4876, 5488, 7382
bracing, cabling 1311, 3703
cavity filling 490, 1311
wound dressings 2450, 4937, 5527, 6116
Treelines and timberlines 728, 2190, 3438, 6611
Trees and shrubs, general
book 1582, 2799, 4350
semi-popular works 1582, 2181, 4114, 4804, 4805, 6227
Trees, dangerous or obstructive 932, 4342, 5485
systems analysis and simulation 1335
Trees, statics/dynamics 1488, 3928, 6814 (*see also* Stem, mechanics)
Trinidad and Tobago
forests and forestry 1898
management, forest 2418
mangroves 2418
Mora excelsa 1898
Tropical forests and forestry 501, 943, 1294, 1820, 1851, 1861, 1871, 2414, 2488, 3150, 3152, 3167, 3168, 4379, 5536, 6221, 6480, 6718 (*see also* Tropical timbers; Vegetation types, tropical)
Tropical forests and forestry *contd.*
age of trees 220, 221
Asia 3165
book 3151
canopy 4368
carbon cycle 1107
choice of species 3197
conferences, symposia 6165
crown, form and development 4062
deforestation 500, 3751, 3758, 6100
diseases, tree 2462
fuel 6347
growth and development, plant 220, 221
hydrology 451
insect pests of trees 2462
inventory, forest 3308, 3316, 4626, 4636, 5230
land use 3757, 3758
mycorrhiza 7132
nature conservation and reserves 500
regeneration 7032
regeneration, natural 1021
remote sensing 3326
silviculture 3151
succession 7032
surveying and mapping 3326
surveys, forest 3316, 4626
synecology 4806
wildlife 500
work studies 976
Tropical timbers, bibliography 6136
Truffles 3361
Truncheons (*see* Planting stock, sets and truncheons)
TT chipper 3906
Tundra (*see* Vegetation types, tundra)
Tunisia
environmental conservation 3171
legislation 3171
Pinus halepensis 581
Turkey
Abies bornmuelleriana 6172, 6173
biological control 1746
provenance studies 6172
Uganda
afforestation 2565
agroforestry 1280, 2418
Pinus spp. 2579, 2580
provenance studies 2580
species trials 2565, 2579
Ultrasonic treatments 3821
effect on plants 4418
Underplanting 1434, 2012, 5639, 6508, 6623, 6624
Underwood 5226
ecological aspects 2243, 7068
Upper Volta
erosion 3764
fuel plantations 5576
fuel resources 5576
Urban and suburban forest(ry) 10, 489, 492, 920, 921, 922, 923, 1186, 1305, 1307, 1308, 1309, 1310, 1475, 1600, 1836, 1857, 2107, 2119, 2861, 3104, 3105, 3633, 3700, 3701, 3775, 4194, 4351, 4352, 4703, 4877, 5077, 5078, 5344, 5769, 6101, 6112, 6160, 6260, 7037, 7343, 7378, 7380, 7384, 7386, 7387
book 1835, 2446, 3699, 6113
directories 4349
USA
Alnus rubra 2005
amenity forests, parks 4351
associations, societies 7386
bibliography 1278, 2442
birds 884, 1259
breeding, tree 2861
Ceratocystis fagacearum 2896
C. ulmi 1194
Choristoneura spp. 4970
Christmas trees 1648
climbers 7036
conferences, symposia 884
conifers 5582
credits and subsidies 3181, 5099
Cronartium fusiforme 3516, 3517
C. ribicola 3518
Cylindrocarpon liriodendri 2283
Dendroctonus frontalis 7234
diseases, tree 764, 7158
documentation and information services 971, 3658, 3659, 5233
Dothistroma pini 4179
USA *contd.*
economics, forestry 5672, 6785
education and training 970
energy resources 84, 526, 529, 531, 978, 1337, 1911, 2520, 3190, 6335
environmental degradation 3190
fire 1526, 5270, 5800, 5802
fire control 675, 1540, 2137, 4029, 4043, 5239, 5813
fish 3030
fishing and fishery management 1821
forest administration 1828
forest industry 5560
forest policy 5094, 5097
forests and forestry 2695
fuel plantations 526, 981, 6335
grazing and pasture 3008, 4625
gums 6659
history, forest(ry) 2494
hydrology 3032
land classification 3072, 3076, 4002
land use 476, 1819, 5093, 6785
landscape 3698, 4347
legislation 60, 476, 575, 957, 965, 2117, 2137, 2738, 3778, 5094, 5097, 7360
logging 1074
machines, tools, equipment 5672
management, forest 613, 2058, 3301, 3302, 3303, 3698
maps 520
measurement systems, units 3318
meteorology 5239
mining wastelands 1278
mycorrhiza 7321
national parks 916, 7360
nature conservation and reserves 60, 2058, 3030, 3095, 7356
nematodes 2978
ornamental trees and shrubs 928, 929, 930, 6118, 6119
Pinus ponderosa 2531
pollution, air 2117, 2738
prices of forest products 955
private forest(ry) 968, 3181, 3778, 5099, 5227
provenance studies 2531
reclamation of degraded land 1278
recreation 485, 487, 2442, 3095, 5072
recreation, forest 1828, 2433
remote sensing 3984, 5270
research 920, 1307, 1337, 1902
resources, forest 528, 951, 952, 6292
silviculture 2523
street trees 4351
succession 3428
surveying and mapping 5233
surveys, forest 4625
taxation 967, 968
thinning 6583
timber trade 951, 953, 954, 955, 956, 957, 958
trees and shrubs 5582
urban and suburban forest(ry) 920, 1307, 2861, 4351, 7384, 7386
vegetation types 2523, 2856, 3030, 4049, 4050, 4051, 4052, 4053
wildlife 2442, 3658, 3659
USA, Alabama
defoliation 4954
forest ownership 192
forest site classification 5240
Lasconotus pusillus 3620
L. referendarius 3620
Malacosoma disstria 4954
management, forest 192
nurseries, tree 3599
Pinus taeda 6603
thinning 6603
vegetation types 5240
USA, Alaska
Betula papyrifera 6658
Choristoneura conflictana 4976
diseases, tree 2915, 4885, 4886
fire 2133, 5277
fires, forest 2139, 4047, 4736
history, forest(ry) 2493
hydrology 5277
management, forest 1441
minor forest products 1441
nutrient cycle 3373, 5173
Populus balsamifera 1389
propagation 1933
recreation 1830

USA, Alaska *contd.*
regeneration 5173
regeneration, natural 1388, 1389
succession 3427
Tsuga heterophylla 3116
vegetation types 2133, 3427, 4821
Zeiraphera spp. 2950
USA, Arizona
Arceuthobium microcarpum 3554
birds 883, 7265, 7268
burning, controlled 270, 4749, 5002
catchment areas, management 1247
Coloradia pandora 5002
dendroclimatology 933
Dendroctonus ponderosae 838
economics, forestry 6289
fire control 4749
fires, forest 677, 3397, 4747, 4748
forest policy 6289
grazing and pasture 1247, 3654, 5023
landscape 918
mining wastelands 1794
ornamental trees and shrubs 10
Pinus ponderosa 3396
reclamation of degraded land 1794
recreation 1247
regeneration, natural 4495
vegetation types 724, 1247, 5901, 5902
volume tables 2023
wildlife 933, 1247, 2372, 3023, 7266, 7267
yield studies 4579
USA, Arkansas
history, forest(ry) 5095
planting stock 572
USA, California
Abies spp. 6431
Acari 3638
biological control 412, 3105
birds 273
catchment areas, management 7293
climate 648
Coleotechnites spp. 6001
Cronartium ribicola 3528
Dendroctonus brevicomis 829, 1712
D. ponderosae 4253
Diplodia quercina 7172
diseases, tree 5366
ecology, forest 2232
economics, forestry 4669
Endocronartium harknessii 4902
energy resources 527
Eucalyptus spp. 3806
fertilizers 6431
fire 271, 272, 273, 274, 2136
fire control 1145, 6910
fires, forest 3395, 4680, 4728, 4733
forests and forestry 3166
grazing and pasture 5018
hydrology 648, 5048, 7293
Ips paraconfusus 830
I. plastographus maritimus 5404
land use 2425
logging 4302, 7293
Malacosoma spp. 861
mammals 274
management, forest 4669
meteorology 4680
national parks 3096, 5484, 7366
nature conservation and reserves 3096, 5484
nursery management 1951
Orgyia pseudotsugata 1683
ornamental trees and shrubs 409
palaeoecology 3430
Phryganidia californica 411
Phytophthora lateralis 2280
Pinus spp. 3430, 5584
P. monophylla 2037
P. muricata 3463
P. ponderosa 5921
P. radiata 2930, 3463
plant protection 4978, 4998
planting 3870
planting stock 3870
pollution, air 2122
provenance studies 5584
recreation 1301, 2425
recreation, forest 1302, 4339, 7366
regeneration 3872
regeneration, natural 3861
remote sensing 3331, 3332, 3335, 3336, 5752
USA, California *contd.*
Rhyacionia frustrana 412
Scolytus multistriatus 2963
seed sources 3463
Sequoia sempervirens 3096
shade trees 3105
species trials 985, 3806
stand characteristics 3922
Stenolechia bathrodyas 409
surveys, forest 4635
thinning 3893, 3951
urban and suburban forest(ry) 3105
vegetation 1598
vegetation types 271, 272, 273, 274, 1598, 2232, 4635
weed control 1407,. 3885, 3886, 5648
wilderness 4339
wildlife 272
yield tables 1467
USA, Colorado
amenity forests, parks 5077
Arceuthobium americanum 2312
A. vaginatum cryptopodum 2339
catchment areas, management 1773
Ceratocystis ulmi 3552
Choristoneura occidentalis 3602
Dendroctonus ponderosae 2339
ecology, forest 3011
grazing and pasture 566, 1781, 3011, 5016
land use 5486
management, forest 4263
metrication 3917
mining wastelands 7327
nursery management 1383
pests, general 792
Picea engelmannii 3199
Pinus contorta 2600
P. ponderosa 792, 2339, 5686
Populus tremuloides 4500
propagation 1383
provenance studies 3199
reclamation of degraded land 1790, 7327
recreation 5486
regeneration, natural 4500
remote sensing 3333, 6773
resources, forest 5558
sowing, direct 2600
trees and shrubs 1383
urban and suburban forest(ry) 5077
vegetation 1790
vegetation types 5326
volume tables 3286
USA, Connecticut
defoliation 1685
diseases, tree 2934
forests and forestry 53
Lymantria dispar 812, 6002
USA, Delaware, *Dioryctria* spp. 4211
USA, eastern
afforestation 7316
economics, forestry 6596
landscape 7318
landslides 7304
Liriodendron tulipifera 3270
logging 6874
mining wastelands 7316, 7318
plant protection 4989
reclamation of degraded land 7316
sowing, direct 7319
thinning 6596
USA, Florida
catchment areas, management 7302
Dendroctonus frontalis 423
Dioryctria pygmaeella 5399
fertilizers 5161
Ficus spp. 2451
fire 1542
forests and forestry 959
fuel plantations 6520
Heterobasidion annosum 4874
insects 2326
Neodiprion lecontei 6025
nutrient cycle 6866
ornamental trees and shrubs 9, 2451
Palmae 9
Pinus spp. 1032
P. clausa immuginata 5215, 6527
P. elliottii 139
plantations 5587, 6518
Podocarpus macrophylla 2359
pollution, general 931
research 959
USA, Florida *contd.*
silviculture 1032
site preparation 6527
species trials 5587
succession 1542
urban and suburban forest(ry) 1305
vegetation types 6886
wildlife 6518
USA, Georgia
breeding, tree 7099
Dendroctonus frontalis 827, 3647, 4984
Dioryctria disclusa 2940
forest site classification 5240
land use 7345
management, forest 2419
nutrient cycle 6866
Pinus taeda 4414, 7099
pollution, air 1843
provenance studies 4414, 6385
reclamation of degraded land 2400
regeneration, natural 5523
Rhyacionia frustrana 3595
R. rigidana 3595
vegetation types 5240
wind damage 1111
USA, Great Plains
burning, controlled 2128
diseases, tree 2302
fire 2128
grazing and pasture 2128
insects 2329
landscape 4348
remote sensing 4348
shelterbelts 2302
USA, Hawaii
Acacia koa 3233
catchment areas, management 5046
coppice 2867
Eucalyptus spp. 2508
E. saligna 2867, 5219
fires, forest 4745
flora/check lists 5876
forests and forestry 521
hydrology 3674
insects 2933
maps, vegetation 3440
Metrosideros collina 3674
M. collina polymorpha 2933
Plagithmysus bilineatus 4985
Prosopis pallida 197
regeneration 1974
regeneration, natural 3233
research 521
Sophora chrysophylla 1974, 3819
trees and shrubs 2787
vegetation types 1350
wildlife 521
Xyleborini 2343
USA, Idaho
biological control 4265
breeding, tree 2524, 4834
browse 5013
Ceanothus cuneatus 5022
Choristoneura occidentalis 1700, 1701, 2991, 3564, 4969
Coleophora laricella 1698, 2333
Dendroctonus pseudotsugae 841, 2349
diseases, tree 2349
erosion 5053
fertilizers 112, 5155
fire 1535
fish 5019
forest site classifications 6717
grazing and pasture 5015, 5019, 5022
hydrology 2386, 2700
Ips pini 3557
land use 910, 911
microclimatology, micrometeorology 2700
mining wastelands 4304, 4305
Orgyia pseudotsugata 1699, 4223
Pinus contorta 2027
P. monticola 1918
P. ponderosa 2524
plantations 1392
pollution, general 2121
provenance studies 1918, 1919, 2526
Pseudotsuga menziesii 1919
P. menziesii glauca 2526
Purshia tridentata 5022
reclamation of degraded land 4304, 4305, 4308
remote sensing 1477, 4667, 6774

USA, Idaho *contd.*
yield studies 1466
USA, Illinois
afforestation 659
fertilizers 114, 4444
forest policy 6294
forest site classification 1315
hydrology 4124, 4704, 5451, 6865
land use 7339
mining wastelands 7320
nutrient cycle 4704, 6865
Pinus strobus 3808
productivity, forest 1315
provenance studies 3808
reclamation of degraded land 7320
soil types 1315
taxation 6314
vegetation types 4124
weed control 575
USA, Indiana
Dioryctria zimmermanni 414
flora/check lists 2795
mining wastelands 7320
nature conservation and reserves 2795
pollution, air 2734, 5795
reclamation of degraded land 7320
recreation 486
USA, Iowa, nematodes 858
USA, Kansas
diseases, tree 5361
mining wastelands 7320
reclamation of degraded land 7320
USA, Kentucky
fuel plantations 3761
insects 3619
mining wastelands 4307, 6096, 7322
plant protection 3619
reclamation of degraded land 3761, 4307, 7322
USA, Lake States
Abies balsamea 309
breeding, tree 302
economics, forestry 6799
forest site classification 6720, 6729
Gymnocladus dioicus 2096
irrigated stands 5581
management, forest 6799
metrication 6720
peatland 1178
Pinus resinosa 6729
plantations 5581
Populus tremuloides 2238, 6598
provenance studies 309
site types 2096
soil types 2096
vegetation types 2193
yield studies 5732
USA, Louisiana
Atta texana 5412
Contortylenchus brevicomi 840
Dendroctonus frontalis 840, 3574, 4241, 7225
drainage, land 5450
forest ownership 3773
grazing and pasture 5438
history, forest(ry) 5095
hydrology 5449, 5450
Ips spp. 7221
land use 5449
Leptoglossus corculus 4205
Tetyra bipunctata 4205
Thanasimus dubius 3574
vegetation types 5450
USA, Maine
Choristoneura fumiferana 817, 1732
fertilizers 4446
Picea rubens 4446
Pissodes strobi 6014
weed control 141
USA, Maryland
Dioryctria spp. 4211
electricity supplies 2620
Lymantria dispar 4209
tending of stands and trees 2620
USA, Massachusetts
Acer pensylvanicum 4809
nutrient cycle 760
peatlands 760
street trees 3700
USA, Michigan
Agrilus anxius 1716
arboriculture 1308
Betula alleghaniensis 1418, 4491
USA, Michigan *contd.*
birds 2375
breeding, tree 1182
Ceratocystis ulmi 5981, 5982
Choristoneura fumiferana 6039
Christmas trees 308
education and training 1308
forest site classification 2663
hydrology 4698
insects 6019
labour, forest 1308
Lymantria dispar 804, 2327
management, forest 5740
nature conservation and reserves 2375
ornamental trees and shrubs 927
Pinus resinosa 1030
P. sylvestris 314, 1606
private forest(ry) 5740
productivity, forest 6715
provenance studies 308, 314, 536, 1182, 1606
Pseudanthonomus hamamelidis 2344
Pseudotsuga menziesii 308
recreation, forest 5074
regeneration, natural 4491, 5628
remote sensing 6768
silviculture 5628
urban and suburban forest(ry) 705
Xyleborus sayi 825
USA, Minnesota
bibliography 5064
birds 2374
breeding, tree 312, 1611
Choristoneura fumiferana 1690
fire 4746, 4814
fire control 6915
Hylurgopinus rufipes 3623
Hypoxylon mammatum 2294
management, forest 5559, 5730
Martes americana 1258
mining wastelands 5064
palaeoecology 4814
Picea glauca 312
Pinus banksiana 1611
P. resinosa 4581
plant protection 4987, 4988
Populus tremuloides 3398, 6490
private forest(ry) 5534
regeneration, natural 2242
remote sensing 2688, 4657
resources, forest 5559
shade trees 2688
soil types 1117
succession 2185, 2242
vegetational history 4814
Verticicladiella procera 5968
wildlife 1767
USA, Mississippi
Acer negundo 6691
biological control 790
Dendroctonus frontalis 1752
management, forest 240
pests, general 5992
Phoradendron flavescens 790
productivity, forest 189
seed production 3643
Sesiidae 5992
succession 4004
USA, Missouri
drought 633
mining wastelands 7320
Pinus banksiana 2252
private forest(ry) 56
reclamation of degraded land 7320
thinning 149
USA, Montana
Arceuthobium spp. 1668
burning, controlled 1537, 2752, 4762
Choristoneura occidentalis 1700, 3564, 4969
Coleophora laricella 1698
Coleotechnites spp. 1697
Dendroctonus ponderosae 3571, 4249, 4250, 4251
ecology, forest 5440
economics, forestry 1829
fire 1537
fire control 4752
fires, forest 1543
grazing and pasture 1764, 5014
Ips pini 3557
logging 450
mining wastelands 2399
USA, Montana *contd.*
mycorrhiza 2261
Neophasia menapia 1696
nutrient cycle 4762
Pinus contorta 2027
plantations 1392
pollution, air 2114, 2115, 2116
pollution, general 5258
Pseudotsuga menziesii 2806
reclamation of degraded land 1790, 2399
recreation, forest 1829, 3102, 4341
regeneration, natural 3855
remote sensing 6772
roads 1304
succession 1543, 1597, 3855, 4813
vegetation 1790
vegetation types 1543, 1764, 2237
wilderness 4341
wildlife 4277
USA, Nebraska
diseases, tree 4159
Kabatina juniperi 4893
provenance studies 307, 747
Pseudotsuga menziesii 307
Quercus macrocarpa 747
Rhyacionia bushnelli 4960
shelterbelts 4159
USA, Nevada 3357
afforestation 5065
choice of species 5065
history, forest(ry) 2496
productivity, forest 2654
stand characteristics 3922
surveys, forest 4634
vegetation types 2239, 4634, 4639
USA, New Hampshire
forest site classification 6724
hydrology 3673, 3675
nutrient cycle 3673, 3675
regeneration, natural 3236
stand characteristics 3283
succession 3236, 3283
vegetation types 3429
USA, New Jersey
ecology, forest 2241
Lymantria dispar 4967
mycorrhiza 1623
wind damage 6026
Xanthoteras politum 4258
USA, New Mexico
Atriplex spp. 1569
browse 2556
Choristoneura occidentalis 4975
Conophthorus edulis 3628
fertilizers 2556
fires, forest 4748
fish 5445
fuelwood 3803
Juniperus spp. 6
mining wastelands 457, 3063, 3064, 5465
mycorrhiza 457
nutrient cycle 5252
reclamation of degraded land 3063
remote sensing 620
soil types 3064
vegetation types 5901, 5902
volume tables 2023
wildlife 2372
USA, New York
erosion 5194
Gremmeniella abietina 4172
insects 2320
Larix decidua 1978
Lymantria dispar 3601
remote sensing 2687
spacing 1978
street trees 2687, 3702
succession 3436
surveys, forest 3702
urban and suburban forest(ry) 926
vegetation types 2243, 3436
weed control 2605
USA, North Carolina
Alsophila pometaria 3606
Christmas trees 4206
Cronartium fusiforme 2298
Dendroctonus frontalis 3559, 4269, 5011
Diprion similis 7241
fertilizers 4458
fish 889
Mindarus abietinus 4206
national parks 7367
nursery management 1008

USA, North Carolina *contd.*
nutrient cycle 5251
Pinus palustris 4518
Quercus rubra 6522, 6685
recreation, forest 7367
regeneration 4518
remote sensing 1099
succession 3427
vegetation types 5251
USA, north central
conferences, symposia 1315
ecology, forest 1315
Melampsora medusae 4920
USA, North Dakota
diseases, tree 4160
grazing and pasture 878
Juniperus virginiana 3193
Malacosoma disstria 1695
provenance studies 3193
Quercus macrocarpa 3223
shelterbelts 2328, 2929, 4160
vegetation types 878
wildlife 878
USA, north-eastern
biological control 2954
diseases, tree 278
fires, forest 1139
Malacosoma americanum 1686
Phloeotribus liminaris 2961
Pineus spp. 5989
Pinus strobus 310
plant protection 2954
provenance studies 310
shade trees 278
street trees 706
yield studies 4609
USA, north-western, vegetation types 1586
USA, northern
documentation and information services 3754
fire control 4750
forest site classification 6728
land use 3754
management, forest 3754
USA, northern Rocky Mts.
phenology 5279
yield tables 4613
USA, Ohio
Christmas trees 2635
economics, forestry 7323
Enaphalodes rufulus 837
farm forest(ry) 7323
forest site classification 2053
nematodes 2979
provenance studies 1602
reclamation of degraded land 7323
street trees 1839
thinning 4548
USA, Oklahoma
breeding, tree 652
Conophthorus edulis 3628
drought 652
economics, forestry 629
mining wastelands 7320
Oncideros cingulata 4980
planting stock 572
private forest(ry) 57
reclamation of degraded land 7320
USA, Oregon
Abies spp. 3934
A. procera 3936
Arceuthobium spp. 2928
A. cyanocarpum 2927
biological control 4265
burning, controlled 4045
Choristoneura occidentalis 5991
climate 4291
credits and subsidies 3777
Dendroctonus ponderosae 2331, 5410
diseases, tree 5961
ecology 6054
ecology, forest 4134
economics, forestry 1829, 3777
erosion 1274, 3678, 5055
fertilizers 4443, 4453, 4455, 5245
fire 2755
fires, forest 4046, 7370
fish 890, 6053
fishing and fishery management 6053
flora/check lists 2183
forest site classification 4123
forests and forestry 3229
USA, Oregon *contd.*
grazing and pasture 2370, 2755, 4276, 4527, 5437, 6052, 6053, 6054, 6055, 6056, 6057
hydrology 2391, 4291
insects 5388
Juniperus occidentalis 2370
landslides 3678
logging 448, 890, 1274, 3964, 4293, 4294
logging damage 3377
management, forest 477, 3964, 5225
minor forest products 3910
mycorrhiza 5943
nature conservation and reserves 3020, 3091, 3092
Orgyia pseudotsugata 2939, 4221
Picea sitchensis 3119
Pinus ponderosa 5921
plant protection 3866, 4222
provenance studies 1921
Pseudotsuga menziesii 2156, 3472, 3935
recreation 7368
recreation, forest 1829, 1831, 7370
regeneration 1020, 3898
regeneration, natural 3856, 3857
silviculture 3229
surveys, forest 4629, 5225
thinning 3890
Tsuga heterophylla 1921, 3119, 3133
vegetation types 4134, 4136, 6051, 6052, 6057
weed control 3885, 3887, 4527
wildlife 448, 3020, 4278, 4288, 6051, 6052, 6054, 6055, 6056, 6057
USA, Pacific Northwest
Alnus rubra 585
Arceuthobium spp. 5382
dendrochronology 5079
dendroclimatology 5079
ecology 4135
fertilizers 3741
fires, forest 4739
fuel plantations 4406
fuel resources 4406
history, forest(ry) 2495
logging waste 2679, 2681
management, forest 3738, 3990
nurseries, tree 2495
nutrient cycle 3738
Pinus ponderosa 4552
Pseudotsuga menziesii 3942
recreation, forest 4739, 5485
silviculture 4552
succession 3427
trees and shrubs 4135
Tsuga heterophylla 3114
vegetation types 3427
wilderness 3990
USA, Pacific Southwest, logging waste 2680
USA, Pennsylvania
biological control 4265
Ceratocystis fagacearum 5352
electricity supplies 2620
fires, forest 1138
Fusarium spp. 4866
provenance studies 1345
regeneration, natural 6409, 6410
remote sensing 6767
street trees 1840
tending of stands and trees 2620
USA, Rhode Island
reclamation of degraded land 5467
soil types 5467
vegetation types 5467, 5908
USA, Rocky Mts.
burning, controlled 4693
Cryptosphaeria populina 4909
Dendroctonus ponderosae 7233
Pseudotsuga menziesii 3762
regeneration 3762
soil types 4693
trees and shrubs 2176
yield studies 3296, 3299
USA, South Carolina
birds 5033
browse 7279
Cinara spp. 2317
Cronartium fusiforme 2298
Dioryctria disclusa 2940
drainage, land 4525
Essigella pini 2317
fire control 6925
USA, South Carolina *contd.*
fuel plantations 4701
mycorrhiza 4846
Odocoileus virginianus 7279
Pinus palustris 4518
P. × *sondereggeri* 5589
plantations 4525
regeneration 4518
surveys, forest 4651
vegetation types 1175
USA, South Dakota
browse 6046
Dendroctonus ponderosae 2341
grazing and pasture 878, 6046
provenance studies 5142
shelterbelts 2929, 5142
vegetation types 878
wildlife 878
yield studies 3298
USA, south-eastern
birds 6061
burning, controlled 2141
Cronartium fusiforme 4907
forest resources 2072
management, forest 1470
nursery management 187, 194
regeneration 179, 180, 188
Scolytidae 4235
stand characteristics 3924
surveys, forest 4650
trees and shrubs for 196
vegetation types 3444
wildlife 5028
USA, south-western
fire 5268
flora/check lists 5315
maps, vegetation 2240
vegetation types 2826
yield studies 3297
USA, southern
biological control 4957
burning, controlled 672, 1137, 5024
Dendroctonus frontalis 5411, 7223
Dioryctria disclusa 7215
diseases, tree 186, 5952
fertilizers 1366, 5613, 7223
forest site classification 215, 4688
grazing and pasture 5020, 5024
legislation 1137
management, forest 181, 5515
nursery management 5619
pests, general 185
Pinus spp. 4397
P. elliottii 4606
P. palustris 1073
P. 'Southern' 5516, 6290
P. taeda 1072, 5662
plantations 5197
planting 137
planting stock 137, 4397
private forest(ry) 4397
regeneration 5516
regeneration, natural 5662
research 5515
resources, forest 6291
Scirrhia acicola 4178
seed production 876
silviculture 5515, 5516
site preparation 5518
site types 1072
statistics, forest 6291
stumpage value and fees 5756
thinning 5519
wildlife 184, 7317
yield tables 4612
USA, Tennessee
fish 889
forest site classification 5240
national parks 7367
nursery management 1008
Pinus taeda 6603
pollution, air 4713
recreation, forest 7367, 7371
succession 3426
thinning 6603
vegetation types 5240
vegetational history 3426
wildlife 3656, 7317
USA, Texas
Atta texana 5412
Ceratocystis fagacearum 5353
Cronartium fusiforme 731

USA, Texas *contd.*
Dendroctonus frontalis 432, 824, 832, 2345, 3567, 3568, 3569, 4240, 5409, 7225
fire control 6921
grazing and pasture 824, 3003, 5026
hydrology 453, 1825
mangroves 4843
national parks 1825
remote sensing 5026
Scolytidae 6013
trees and shrubs for 3704
urban and suburban forest(ry) 922
vegetation types 725
wildlife 3019, 5029
USA, Utah
birds 5031
Dendroctonus ponderosae 1224
grazing and pasture 5021, 6083
Phigalia plumogeraria 5396
precipitation 3998
vegetation types 2239
USA, Vermont
Abies balsamea 2318
Mindarus abietinus 2318
provenance studies 2318
urban and suburban forest(ry) 6113
USA, Virginia
Christmas trees 5967
credits and subsidies 5564
fuel plantations 3799
legislation 5564
Pineus floccus 3591
pollution, air 6887
remote sensing 621
Verticicladiella procera 5967
USA, Washington
Abies spp. 3934
A. procera 3936
Alnus sinuata 5659
burning, controlled 4045
Choristoneura occidentalis 4972
fertilizers 3840, 4443, 4456
fire 4740
forest site classification 4123
insects 5388
management, forest 5225
minor forest products 3910
mycorrhiza 4848
nature conservation and reserves 3020
Orgyia pseudotsugata 4221
Pissodes strobi 3626
plantations 3923
productivity, forest 2030, 2038
provenance studies 2526
Pseudotsuga menziesii 3935
P. menziesii glauca 2526
recreation, forest 1831
soil types 643
surveys, forest 5225
Tsuga heterophylla 3116, 3133
urban and suburban forest(ry) 3701
wildlife 3020
USA, West Coast
breeding, tree 5330
silviculture 3963
USA, West Virginia
forest site classification 6721
Quercus spp. 6721
recreation, forest 5075
thinning 5654
yield tables 2666
USA, western
afforestation 6109
Artemisia spp. 2757
bibliography 2757
fires, forest 1532
fish 6063
fishing and fishery management 6063, 6064, 6065, 6066, 6067, 6068
forest policy 2403
grazing and pasture 3007, 4860
land use 2403
Lepidoptera 4974
mycorrhiza 4860
Pinus edulis 4810
Populus tremuloides 297
recreation 6109
recreation, forest 4338
research 1532
resources, forest 5096
Thuja plicata 5096
wilderness 2403, 4338
USA, Wisconsin
Agrilus bilineatus 4981
bibliography 1772
biological control 6035
browse 885
catchment areas, management 1772
Choristoneura pinus 1214
climate 1214
erosion 1772
fertilizers 6448
forest site classification 2663
management, forest 6748
Neodiprion pinetum 434
plantations 1772
pollution, air 5795
Pristiphora erichsonii 1724
productivity, forest 2029
regeneration, natural 5628
silviculture 5628
street trees 579
vegetational history 3431
wildlife 1768
USA, Wyoming
Arceuthobium americanum 2312
browse 5030
burning, controlled 5030
Dendroctonus ponderosae 2341, 3571
fire 2754
hydrology 5047
logging 450
mining wastelands 7327
reclamation of degraded land 1790, 7327
regeneration, natural 5030
vegetation 1790
vegetation types 4125
wildlife 2754
yield studies 3298
USSR
Alces alces 5037
assortments, wood 6694
biological control 5003, 6454
birds 5036
book 4939
breeding, tree 4842
dendrochronology 7391
diseases, tree 860, 3504, 4892
bibliography 2870
ecology, forest 4830, 5886
economics, forestry 49, 248, 3994, 4345
edible plants 3823
environmental conservation 915
fertilizers 4452
fires, forest 5808
forecasts, economic 4608
forest ownership 1328
forests and forestry 49
history, forest(ry) 502
insects 425, 860, 4939
logging 241
Lymantria dispar 800
management, forest 241, 502, 2641, 6694, 6751
minor forest products 5862
nature conservation 915
nursery management 3849, 6454
peatland 3912
pests, general 2315
Picea abies 2831
Pinus nigra 2315
plant protection 860
Pontania proxima 1725
propagation 4439
reclamation of degraded land 3912
recreation, forest 4345, 7364
regeneration 5632
resources, forest 1328
shelterbelts 3581, 5463, 5731, 6090
stand characteristics 5172
statistics, forest 1328
trees and shrubs for 5588
vegetation types 5904, 6751
volume tables 6694
weed control 145
wildlife 3018
work studies 3997
yield studies 4608
yield tables 5731
USSR, Asiatic region, vegetation types 4818
USSR, Baltic states
afforestation 5446
drainage, land 3363
drought 3363
USSR, Baltic states *contd.*
hydrology 4705, 5446
ornamental trees and shrubs 3584
pests, general 3584
Pseudotsuga menziesii 4065
Scolytidae 4237
street trees 2118
surveys, forest 4644
yield tables 5703
USSR, Belorussia
biological control 872
Lymantria monacha 2321
Picea abies 2820, 4551
site preparation 1403
USSR, Central Asian republics
afforestation 4487
amenity forests, parks 4303
arid zones and deserts 6283
breeding, tree 5928
browse 2161
droughts 5768
economics, forestry 4485
Gnomonia leptostyla 5364
grazing and pasture 2161
Haloxylon aphyllum 1596, 3360
hydrology 7294
irrigated stands 4303
Juniperus turcomanica 2314
landscape 1596
planting 4507
planting stock 4485
Prunus spp. 5768
Sclerodermus turkmenicus 2352
seed production 5602
shelterbelts 1276, 4303, 5059, 6091
site preparation 5180
soil survey 3360
trees and shrubs 4120
Ulmus pumila arborea 3810
yield tables 237
USSR, European region
forests and forestry 3770
hydrology 2845
Picea abies 2830, 2845, 4584
Pinus sylvestris 4584
productivity, forest 2829
provenance studies 532
Quercus robur 4583
species trials 3811
stand characteristics 4583
USSR, Far East
Betula ermanii 3474
forests and forestry 3771, 4392
land use 4392
Larix gmelinii 6683
Pinus sylvestris 4412, 5716
precipitation 6078
regeneration, natural 124, 5690
stand characteristics 5216, 6683
thinning 3929, 6683
vegetation types 4132, 4817
yield studies 5216, 5716
USSR, Karelia
Alces alces 5035
Cerambycidae 833
ecology, forest 5915
Melampsora populnea 1654
microclimatology, micrometeorology 730
mining wastelands 4310
Picea abies 4576
productivity, forest 4576
reclamation of degraded land 4310
regeneration, natural 4497
wildlife 5035
USSR, RSFSR, thinning 3273
USSR, Russian region, central
afforestation 291
Alces alces 5441
arboreta 6122
Betula spp. 4417
biological control 7256
climate 5765
diseases, tree 785, 4873
erosion 5058
fertilizers 5614
fires, forest 6495
history, forest(ry) 5090
land use 5090
Lochmaea caprea 418, 419
Lymantria monacha 408
mining wastelands 903, 4309, 7315
Neodiprion sertifer 3634
nutrient cycle 6843

USSR, Russian region, central *contd.*
ornamental trees and shrubs 5765
phenology 5765
Pinus sylvestris 5591, 5729, 6545, 7076
Populus tremula 4385
productivity, forest 2247, 4594
provenance studies 5591, 7076
reclamation of degraded land 4309
recreation, forest 4346
regeneration, natural 710, 4309, 5175, 6495
remote sensing 4873
Robinia pseudoacacia 5460
seed production 5864
shelterbelts 291, 5061, 6093
silviculture 5660
soil types 4025, 5776
spacing 6889
species trials 785, 4417
succession 4385
Tortrix viridana 803
Ulmus laevis 2852
vegetation types 4025
weed control 6545
wildlife 4287
yield studies 4580, 5729
yield tables 4614
USSR, Russian region, Ciscaucasian
breeding, tree 5933
Calospilos pantaria 6005
catchment areas, management 6081
forests and forestry 4384
insects 2984
Juglans regia 5933
minor forest products 206
regeneration, natural 123
shelterbelts 6089
USSR, Russian region, northern
Alnus incana 3959
amenity forests, parks 4415
drainage, land 3881
ecology, forest 5909
fertilizers 1941
fire 3391
landscape 6111
nursery management 6447
Picea abies 882, 2832, 3956
Pinus sibirica 4415
P. sylvestris 3956, 5591
plantations 3853, 5050, 6519
pollution, general 5789
productivity, forest 5221
provenance studies 5591
recreation, forest 3100, 6111
regeneration, natural 3853, 4494, 5629
seed production 6399, 6406
thinning 4541, 4597
vegetation types 2832, 5909
wildlife 882
yield tables 3959, 4597, 5221
USSR, Russian region, south-eastern
afforestation 5054
Haloxylon aphyllum 5784
hydrology 6845
Larix sibirica 4505
Lymantria dispar 4964
L. monacha 6031
plantations 4505
shelterbelts 3679, 4767
site preparation 5054, 6529
soil types 6845
species trials 5784
trees and shrubs 3679
USSR, Russian region, Urals etc.
breeding, tree 5929
Cerambycidae 4230
history, forest(ry) 5890
machines, tools, equipment 146
pollen 5890
regeneration 3863
seed production 5600
thinning 146
USSR, Siberian region
afforestation 5057
Dasineura laricis 5416
dendroclimatology 3705, 4101
Dendroctonus micans 6023
erosion 5057
hydrology 651, 901, 3672
Larix sibirica 400, 3637
nutrient cycle 1513
peatland 3672
USSR, Siberian region *contd.*
phenology 5829
Pinus pumila 2064
P. sibirica 4593
P. sylvestris 3864
regeneration, natural 3864
seed production 4101
shelterbelts 651, 901, 6091
soil types 646, 6817
succession 2190
treelines and timberlines 728, 2190
vegetation types 646, 728, 2064, 2189
volume tables 4572
USSR, southern
afforestation 4487
Fraxinus oxycarpa 4067
protection forest 4423
seed production 4423
USSR, Transcaucasia
afforestation 4413
diseases, tree 1657, 4871, 5963
mycorrhiza 750, 1625
Parrotia persica 125
regeneration, natural 125
thinning 125
USSR, Ukraine, Crimea and Moldavia
afforestation 5073
assortments, wood 6696
biological control 4966
catchment areas, management 5051
diseases, tree 7123
drainage, land 6543, 6544
economics, forestry 129, 4344, 6696
erosion 6086
fertilizers 5143, 6442, 6443
flora/check lists 2235
hydrology 1269
irrigated stands 6846
Lymantria dispar 405, 4966
Malacosoma neustria 806
mining wastelands 908
minor forest products 3911, 5830
national parks 2235
nutrient cycyle 5910
pests, general 3639
phenology 4064, 5819
Picea abies 4117
Pinus mugo 5819
plant protection 7123
plantations 129, 1269
pollen 5819
pollution, air 6873
pollution, water 1269, 5051, 6872
protection forest 6442
Quercus robur 4517
recreation, forest 2424, 4344, 6110
seed production 5143
shelterbelts 900, 6846, 7310
site preparation 6536
soil types 6840
species trials 5073
surveys, forest 5693
thinning 4540
vegetation types 2235, 5910
virgin forest 3288, 5692
yield studies 6931
Valuation of forest products 1100
Valuation of forests and land 2696, 3089, 3920, 3992, 4670, 5760, 6596, 6696, 6784, 6785, 6789
book 6792
damage and losses 2692, 3306
systems analysis and simulation 2071
tree valuation 2697, 3106
Vegetation, general 4129, 6820
anthropogenic 722, 5323, 5887, 5911, 7037, 7052, 7055 (*see also* Succession, anthropogenic)
book 4818
classification 1096, 1173, 1176, 1598, 1764, 3030, 3071, 3327, 4130, 4139, 4821, 5071, 5904, 6781, 7048, 7056, 7057, 7063
degradation, biotic 722, 1588
history 1578, 2192, 2803, 3426, 3430, 3431, 4358, 4814, 4829, 5882, 5893, 5894, 5895, 5896
study methods 5725, 7051
survey and mapping 246, 295, 1096, 1595, 2240, 3162, 3327, 3440, 4812, 5235, 5753, 6781, 7055, 7060, 7061
zonation 7049
Vegetation types 274, 1175, 2193, 2795, 2800, 6633, 6886
alpine 2190, 7048
arctic 4132
arid areas, general 1761, 3360
bibliography 7050, 7051
bogs 5075
book 7050
boreal forest 515, 3427, 5493, 5494, 5495, 5496, 5497, 5498, 5499, 5500, 5501, 5502, 5505, 5506, 5507, 5508, 5509, 5510, 5511, 5512, 5513, 5514, 7054
bottomland (floodplain) forest 2246, 2381, 3444, 4051
broadleaved deciduous forest, subtropical/tropical 4126, 4828
broadleaved deciduous forest, temperate 1119, 3288, 4051, 4133, 5323, 6238, 6239, 7055
broadleaved evergreen forest, subtropical/tropical 294, 1851, 4017, 4128, 4828, 5319, 5914
broadleaved/conifer forest 1119, 5323, 5691, 6751
caatinga 1260, 1507, 2052
cerrado 4691
chaparral 271, 272, 273, 724, 1598, 2136, 3428, 3947, 4048, 4052, 4733, 6567
cloud forest 4828, 4829
coastal and littoral 294
conferences, symposia 3444
coniferous forest, subtropical/tropical 5320
coniferous forest, temperate/subarctic 646, 648, 2194, 2801, 3027, 3091, 3427, 4050, 4133, 5320, 5909, 7052, 7067
desert 1596, 1598, 3009, 3428, 4053, 5906
dune 1860, 5467
forest-steppe 646, 1165, 2235
fynbos 678, 5275, 5899, 6992
garrigue 4033
grassland 2190, 4053
heathland 2111
kerangas 5914
mangrove 1594, 1595, 1860, 3442, 3443, 5782
maquis 5816
mattoral 4116
peatland, general 126, 1178, 2125, 2126, 3672, 5914, 7054
prairie 3437, 4053
rain forest 299, 1168, 1190, 1260, 1779, 1780, 1851, 1852, 1854, 2062, 2149, 3427, 3763, 4127, 6080, 7013, 7066
riparian forest 300, 878, 1262, 2245, 2856, 3030, 4136, 4635, 4828, 5050, 5903, 6932
savanna 1851, 1854, 2756, 3428, 3439, 4115
savanna woodland 2236, 4052, 7336
sclerophyllous forest 7053
sclerophyllous scrub 2890, 4052
scrub 1595, 1596, 2235, 5325
steppe 2235, 3092
subalpine forest 2064, 2190, 2234, 3027, 3321, 7048
swamps 126, 1494, 1595, 1860, 4051, 4124, 5249, 5251, 5256, 5449, 5450, 6886
taiga 728, 915, 2189, 2814
thicket 2064, 4132, 5075
thorn forest 4828, 5325
tropical 1494, 1499, 1851, 1854, 3788, 4126
tundra 728, 2189, 2801, 4132
wet lands, general 296, 760, 1095, 2856, 3324, 4820, 5908, 7062
Venezuela
book 1167
climate 1109, 2081
flora/check lists 1167
hydrology 2081
land classification 1851
Loranthaceae 1575
Melastomataceae 4106
nutrient cycle 1125
parasites and saprophytes 1574
phenology 1153, 2709
Phoradendron spp. 1574
Pinus caribaea 4633

Venezuela *contd.*
plantations 2716
Pourouma spp. 4799
productivity, forest 2052
remote sensing 3326
shifting cultivation 1125
soil types 2709, 2716
surveying and mapping 3326
surveys, forest 4633
trees and shrubs 1167, 4073
vegetation types 1851, 2052
Vietnam
forests and forestry 2487
Pinus spp. 6375
P. massoniana 6620
plantations 2487
provenance studies 6375
Vines (*see* Climbers)
Virgin forest 3288, 4127, 4289
Virgin Islands of the USA
ecology, forest 4806
stand characteristics 4806
urban and suburban forest(ry) 5078
Virus diseases of insects 1738, 2937, 2942, 2980, 3596, 3597, 3615, 4215, 4225, 4961, 5420, 6035, 7254
Virus diseases of trees 1186, 1885
leaf roll 1666, 2926, 5377
mosaic 361, 1665
review 1664
witches' brooms 1203
Vitamins 3913
Voles (*see* Mice, voles and rats)
Volume determination, tree and stand 1064, 2018, 2678, 3308, 4576, 4624, 4644
calculation aids 2027, 3293
corrections for defects 595
data recording and processing 3971, 4627, 4655, 5214
equations 595, 598, 602, 1071, 1085, 1086, 1451, 1454, 1456, 2023, 2025, 2027, 2652, 3319, 3321, 4569, 4570, 4574, 4632, 4647, 4648, 4649, 5215, 5719, 5733, 6684, 6685, 6690, 6691, 6726
from felled sample trees 3319
intermediate fellings 1996
merchantable volume 214, 598, 2026, 2027, 2652, 3931, 4579, 4580, 4632, 5217, 6690, 6745
single trees 602, 2650
theory 497, 3976
use of dendrometers 4574, 4627, 4630, 4631, 5214
use of surveying instruments 5214
Volume tables 596, 597, 1066, 1067, 1068, 1069, 1070, 1071, 1455, 2020, 2022, 2023, 2025, 2027, 2647, 2648, 2649, 2650, 2651, 3270, 3286, 3287, 3443, 3928, 4569, 4570, 4572, 5212, 5214, 5215, 5221, 5222, 5686, 5694, 5697, 5698, 5699, 5700, 5701, 5719, 6684, 6693, 6694, 6732, 6733, 6734
W-126 digger 1394
Wages, rates/tariffs 67
Wapiti (*see* Elk (wapiti, *Cervus*))
Wasps 436
Water composition and quality 452, 1267, 1269, 1757, 1781, 1825, 1832, 2387, 2392, 2737, 3675, 4328, 4442, 5051, 5252, 5446, 5486, 5793, 6069, 6080, 6082, 6867, 6872, 7292
logging effects 964, 1270, 1775, 2391, 4299, 4302, 5277, 5451, 6877, 7293
N content 453, 2390, 2391, 3672, 3673, 5451, 6925
Water conservation (*see* Conservation, soil and water)
Water relations of plants 255, 649, 695, 2921, 3362, 5463, 5784, 6847 (*see also* Foliage, water relations; Roots, soil/water relations)
adaptations 4697, 5782
atmospheric-water uptake 5304
growth and increment 1878, 2102, 2105, 2107, 2206, 2719, 2721, 3206, 6544, 6675, 6676, 6846
internal relations 2206, 2208, 3365, 3947, 4086, 4790, 5178, 5848, 6954, 7000
review 3366, 3367
Water relations of plants *contd.*
stress conditions 392, 633, 650, 652, 779, 901, 1426, 1962, 2105, 2207, 2720, 3364, 3365, 3366, 3367, 3525, 3947, 4016, 4303, 4697, 4703, 4793, 4901, 5278, 5861, 6809, 6999, 7000, 7003, 7097, 7152 (*see also* Soil water, deficiency)
study methods 1124, 1559, 4367, 4702, 5248
systems analysis and simulation 5710
Water table (*see* Groundwater)
Watering (*see* Irrigation; Nursery management, watering)
Waterlogging, soil 1114, 5770, 6821, 6848
Watersheds (*see* Catchment areas)
Weed control in nurseries (*see* Nursery management, weed control)
Weed control in plantations 4811
by fire or flame 674
chemical 1039, 1040, 1041, 1973, 1979, 1983, 1984, 1985, 1986, 1987, 1989, 1990, 1991, 2476, 2593, 3250, 3257, 3878, 3883, 4534, 4535, 5184, 5518, 5648, 6452, 6505, 6548, 6549, 6551, 6555, 6559, 6562, 6563, 6564, 6569, 7379
conferences, symposia 1981, 1991
manual 576, 1370, 1973, 1983, 2576, 3257, 5645
mechanized 1990, 2576, 3250, 4535, 4544, 5510, 6452, 6545, 6551, 7379
mulching 576, 1973, 7379
silvicultural 6569
Weed trees and shrubs, control 577, 1647, 2186, 2187, 2457, 3910, 7052 (*see also* Biological control, weed trees and shrubs)
biological 2603, 6550
burning 2756
by grazing 3005
chemical 141, 143, 144, 145, 575, 1407, 1408, 1409, 1988, 2606, 2607, 3005, 3006, 3252, 3885, 3886, 3887, 3888, 4526, 4527, 4528, 4532, 5814, 5815, 6557, 6566, 6567, 6924
manual 2451, 3005, 6567
mechanized 143, 2607, 3251, 6635
silvicultural 3871
Weedkillers 575, 1735, 1759
additives 1986, 6546
alachlor 4533
alloxydim 5621
aminotriazole 1409, 6568, 6924
amitrole 1973, 4542
ammonium thiocyanate 1409, 6568
atrazine 1973, 1983, 1984, 1987, 1994, 3226, 4486, 5184, 6556, 6924
bifenox 1954, 3847, 6455
book 2604
bromacil 6566
butralin 1954, 3847
chlorthal 130
chlorthiamid 1983, 1984
cyanazine 1984, 6556
dalapon 1037, 1987, 2593, 4533, 4535, 5815
DCPA 1954
dicamba 2605, 4542, 6549
dichlorprop 2605, 5518
diphenamid 1954, 3847
diuron 3226
ethephon 2965
ethidimuron 6924
fenuron 6527
fosamine 256, 4526, 5814, 6557, 6566
glyphosate 141, 1041, 1408, 1409, 1979, 1983, 2593, 2605, 2606, 3252, 3878, 3879, 3888, 4542, 5647, 5815, 6505, 6559, 6561, 6566, 6567, 6568
hexazinone 1954, 1984, 1992, 2605, 4533, 5815, 6549, 6555, 6556, 6560, 6565, 6566
'HOE-22870' 3847
'Krenite' 1409, 1988
linuron 3226
MCPA 4542, 6549
MCPB 6554
mecoprop 2605
methyl bromide 3257
napropamide 1954, 3847, 6455, 6556, 6560
neburon 6556, 6560
Weedkillers *contd.*
nitralin 3226
oxyfluorfen 3847, 5815, 6556, 6560
paraquat 1002, 1040, 1983, 2606, 2637, 2965, 4528, 5434, 6527, 6657
perfluidone 3847
picloram 141, 2605, 2606, 2607, 2608, 3250, 3885, 4542, 5628, 6548
prometryn 3847
propazine 3847
propyzamide 1984, 1985, 3878
'Shell-U-Forst' 6554
simazine 130, 1002, 1993, 3226, 3257, 3878, 4486, 5815, 6505
SSS-tributyl phosphorotrithioate 2606
TCA 4533
tebuthiuron 2605, 4527, 6924
terbacil 5184
terbuthylazine 4534
thiazafluron 6924
triazine 1038, 1039, 1993
triclopyr 141, 2605, 2608, 3885, 3886, 6549, 6558, 6566
trifluralin 3847, 6455
'Vorlex' 3257
2,4-D 141, 145, 256, 574, 1040, 1226, 1407, 1782, 1980, 1986, 1990, 1993, 2605, 2606, 3005, 3250, 4528, 4532, 4542, 5184, 5628, 5648, 5815, 6546, 6567
2,4,5-T 1040, 1407, 1409, 2606, 3005, 3885, 4528, 4532, 4535, 4542, 5628, 5646, 5648, 6069, 6558
Weedkillers, application 5509, 6232 (*see also* Site preparation, chemical methods; Thinning, chemical)
aerial 5201
book 6553
ecological effects 256, 1985, 3814
effect on pests 1226
effect on soil organisms 1993, 3488
equipment 2609, 4530, 5201
form and methods 144, 1407, 1954, 1983, 1986, 2605, 2606, 2608, 2609, 6546, 6565
hydrological effects 1782
persistence 145, 4528
phytotoxic effects 130, 142, 574, 1954, 1994, 2965, 4533, 5184, 5647, 6555, 6556, 6558, 6559, 6560, 6561
pollution problems 145
residues 6069
study methods 2608, 5647
to clear access lines, rights of way 2605
toxic effects on animals and man 6069
Weeds, herbaceous (*see also* Bracken control; Competition, ground vegetation)
Weight determination, tree and stand
data recording and processing 4655
equations 213, 1079, 1448, 2024, 2031, 2034, 2035, 2036, 2048, 2664, 3946, 3953, 3954, 4569, 4570, 4582, 5215, 5696, 5719, 6684, 6691, 6726, 6737
Weight tables 1067, 2024, 2048, 3270, 3928, 4569, 4570, 5215, 5221, 5699, 5719, 6684, 6698, 6726
Western Samoa, *Neotermes samoanus* 401
Whole-tree utilization 73, 1512, 2026
bibliography 608
Wild boar (*see* Pigs)
Wilderness 910, 2403, 3095, 3990, 4338, 4339, 4341, 4669, 5800 (*see also* Nature conservation and reserves)
Wildlife 521, 1768, 3085 (*see also* Birds, Fish and particular mammals concerned, e.g. Deer, Mice, voles and rats, Squirrels)
bibliography 2373, 2442
biology 38, 1254, 4285, 6051, 7266, 7267
book 3664
conferences, symposia 6192, 6367
conservation and management 446, 882, 914, 917, 1251, 1299, 1824, 1853, 1901, 2372, 2856, 3020, 3173, 3309, 3691, 3756, 4280, 5034, 5093, 6070, 6877, 7282, 7285, 7286, 7317
Capra 2379
Crocodylus 1248, 4279
Podocnemis 3014
Sus 3661

Wildlife *contd.*
damage by 442, 878, 882, 3018, 3127, 3661, 3866, 4286, 4287, 4288, 4289, 4506, 5035, 5037, 5439, 5441, 6062, 6192, 6367, 6503, 6621, 7262, 7263, 7264, 7274, 7275, 7276, 7284
ecology, habitat 446, 605, 1247, 1251, 1254, 1255, 1256, 1883, 3030, 3314, 3656, 5440, 6051, 6052, 6054, 6055, 6056, 6057, 6367, 6518, 7266, 7267
Bos 1853
Capra 5322
Cervus 1853, 4277, 4278
Elephas 1853
Martes 2378
Odocoileus 4278
Podocnemis 3014
Primates 1854
Rhinoceros 1853
Rodentia 369
effect of fire 677, 881, 2373, 2754, 4055, 5440, 5517, 6907
effect of forest operations 183, 448, 2373, 2376, 2377, 4277, 5503, 7270
effect of pesticides 1734, 2373, 4288
population studies and surveys 888, 1257, 1766, 3663, 4282, 4286, 5035, 5443, 7264, 7284
recreation 2442, 7269
study methods 445, 1854, 5440, 6367
systems analysis and simulation 2372, 3658, 3659
Willibald mulcher 3272
Wilt and wilt diseases 167, 773, 1549, 1644, 3510, 3511, 4901, 5352, 5353, 6185, 7170, 7197
Winches 6645
Wind
bibliography 5799
effect of forest 886, 2748
effect of shelterbelts 5059, 6808
effect of topography 886, 4005, 4678, 4681, 6815
effect on pests 3561
effect on plant growth 5762, 6811
effect on temperature 4681
measurement 5238
relation to fire 630, 631, 2080, 4680, 5238, 5799
systems analysis and simulation 2080
Wind damage 3239
consequential injuries 1892, 4161, 5485, 6016
effect on yield 6811
measurement 6808
measures against 2833, 6114, 6811
rehabilitation measures 1892, 2585, 5271
relation to site and stand characteristics 1111, 2086, 2702, 2704, 4567, 5913, 6026, 6595
Windbreaks (*see* Shelterbelts)
Winter hardiness (*see* Frost resistance)
Winter injury (*see* Frost injury)
Witches' brooms 398, 2311, 2915, 4150, 5367, 5379, 5380, 5860, 6186, 7190, 7191, 7192
Wolves 1767
Wood
general information on timbers 160, 2154, 6277, 6955
quality, general 4602
Wood anatomy, general 6939
Acer rubrum 6942
Adenopetalum biglandulosum 4772
Annonaceae 4776, 4778
Balanites spp. 6947
Barylucuma spp. 5282
Betula spp. 6948, 7028
book 1158, 4074, 6951
Chromolucuma spp. 3405
computer techniques 6960
conferences, symposia 6951
Couratari spp. 4775
Couroupita spp. 4775
Cryptomeria japonica 4774
Dipterocarpus spp. 5220
disease aspects 1204, 2897, 4166, 4167, 4876
Drypetes spp. 1550
Ecclinusa spp. 5285
effect of environment 1556, 6888, 6947, 6953, 6967
Elaeoluma spp. 3400
Wood anatomy, general *contd.*
Eucalyptus gummifera 2761
Fraxinus angustifolia pannonica 6940
Gambeya spp. 3403
Gayella spp. 5284
Gomphiluma spp. 3404
identification 86, 277, 3316, 5826, 5870, 6949, 6960, 7028
individual species 277, 689, 1155, 1554
Itaobimia magalhaesii 1548
Jacaranda mimosifolia 6974
Lauraceae 4074
Leonia spp. 1555
Manilkara spp. 5281
mathematical and statistical methods 6960
Menispermaceae 5291
Moringa concanensis 4769
Myrtiluma spp. 5287
Palaquium spp. 5220
Paralabatia spp. 3402
phylogenetic aspects 2157, 4778, 6953
physiological aspects 4773, 5823, 6950, 6954, 6974
Pinus spp. 6949, 6969
P. strobus 6968
P. thunbergii 4774
Populus koreana 6962
Pradosia spp. 5283
Putranjiva roxburghii 6974
Ragala spp. 5286
relation to grafting 105
relation to growth factors 224, 2767, 3705, 4773, 5220, 5263, 5798, 6580, 6892, 6896, 6898, 6900
relation to properties 1837, 6941, 6948, 6959
Sandwithiodoxa spp. 3401
Sapotaceae 5282, 5283, 5284
Sarcaulus spp. 5288
Shorea spp. 5220
Sindora spp. 5220
Strasburgeria spp. 2770
study methods 3705, 4771, 4783, 6964
taxonomic aspects 277, 689, 1550, 1557, 2770, 3400, 3401, 3402, 3403, 3404, 3405, 4769, 4775, 4778, 5281, 5282, 5283, 5284, 5285, 5286, 5287, 5288, 5291, 6944, 6947, 6953, 7018, 7028
terminology 6952
Ulmus americana 4166, 4167
variation 1156, 1556, 5263, 5289, 6942, 6947, 6948, 6958, 6960, 6967
Xanthophyllum spp. 6944
Wood anatomy, special
abnormal 278, 1159, 1549, 2151, 5220, 6972
cell-wall 1551, 2150, 4077, 4166, 4167, 4774, 6962, 6968, 6969
elements, differentiation 1158, 1551, 3410, 4072, 4077, 4770, 4777, 6940, 6957, 6974
elements, proportions of 6937, 6942
fibres 4167, 5290
intercellular spaces 4772
parenchyma 4876, 5220, 6962, 6967, 6968, 6969
pits 6945, 6954
pore sizes and volumes 278
rays 278, 1550, 4776, 4777, 6946, 6962, 6968, 6969
resin canals 5220
tracheids 3705, 6964
tyloses 6888, 6966, 6967
vessels 4166, 4776, 5292, 6942, 6943, 6945, 6954, 6961
xylem 6938, 6940
Wood, chemical constituents
arabinogalactans 1562
biologically active 2281
extractives 3630, 5831
fatty acids 4784
glucomannan 6989
inorganic 2762, 3381
phenols 2281
relation to growth factors 4081, 4784, 5263, 5831
resin acids 4784
starch 2762, 5831
suberin 4876
terpene alcohols 6987
terpenes and terpenoids 6987
Wood chemistry 225, 6986
Wood, physical and mechanical properties
effect of growth factors 1135, 4720, 5263, 6890, 6893, 6895, 6900
effect of wood defects 5852
variation 354
Woodwasps 851
Work studies 976
afforestation 4405
bibliography 6329
conferences, symposia 6477, 6478
labour, forest 6334
logging 6342
mathematical and statistical methods 3997
nursery management 4405
physiological 69, 6329, 6333, 6337, 6338, 6342
psychological 69, 6329, 6342
silviculture 576, 2592, 5202, 6477, 6478
study methods 6342
thinning 1436
Working plans 4618, 4620, 5737, 6759
Wounds, plant 1159, 2151, 6897 (*see also* Cankers, role of wounds; Decay in trees, role of wounds; Root and butt rots, role of wounds)
healing, occlusion 745, 1231, 1635, 2449, 4876, 5527, 5940, 5958, 6116, 6609
review 1999
X-rays (*see* Radiation, ionizing)
Yeasts 748
Yemen Arab Republic
afforestation 5462
erosion 5462
Yemen Democratic Republic
afforestation 7305
erosion 7305
Yield, financial 134, 2040
Yield regulation and forecasting 232, 612, 1466, 2623, 2664, 2665, 2667, 2669, 3137, 3138, 3291, 3293, 3294, 3302, 3308, 3311, 3320, 3937, 3949, 3957, 3992, 4573, 4603, 4604, 4605, 4606, 4607, 4608, 4615, 4619, 4623, 5141, 5219, 5500, 5520, 5626, 5730, 5733, 6166, 6211, 6694, 6706, 6741, 6747, 7051
systems analysis and simulation 238, 498, 611, 1467, 2041, 3117, 3296, 3297, 3298, 3299, 3319, 3950, 3958, 4609, 4616, 5519, 5732, 6748
Yield tables 237, 239, 604, 610, 1069, 1084, 1087, 1088, 1467, 2054, 2055, 2666, 2668, 3136, 3138, 3139, 3270, 3295, 3957, 3959, 4592, 4607, 4612, 4613, 4614, 5700, 5726, 5728, 5731, 5734, 6618, 6733, 6734, 6740, 6744, 6746, 6749
Yugoslavia
Abies alba 6170
Altica quercetorum 4242
Clostera anastomosis 5401
diseases, tree 389, 828, 1662, 5355
fertilizers 4463
history, forest(ry) 3765
Lophodermium spp. 2919
L. pinastri 4184
L. seditiosum 4184
Lymantria dispar 1216
Naemacyclus minor 2309
nursery management 4184, 4463
Phoma acuum 4181
Picea abies 2821, 2824
regeneration 2824
Rhyacionia buoliana 5419
Sclerophoma deliblatica 4181
Scolytus spp. 828
silviculture 563
stand characteristics 4289
surveys, general 3765
thinning 6585
vegetation types 7050
Verticicladiella procera 3512
virgin forest 4289
wildlife 4289
Zaire
agroforestry 464, 6097
fuel plantations 3764
Zambia
education and training 3787
fungi 210
Gmelina arborea 202
mycorrhiza 749
Phorancantha spp. 431

Zambia *contd.*
Pinus kesiya 4200
P. oocarpa 4200
resources, forest 7336
shifting cultivation 7336
Zimbabwe
breeding, tree 5331
Buzura edwardsi 1693
Eucalyptus spp. 5331
Eulachnus rileyi 1212
fuel plantations 2514, 2515, 2516, 5571
fuel resources 2516
fuelwood 2513
grazing and pasture 2606
insects 1694
resin-tapping 5205
weed control 2606

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